

ACADIA
UNIVERSITY

Academic Calendar
2025-2026

This Calendar is published several months before the academic year for which it is operative. Its contents are subject to continuous review and the University reserves the right to alter anything described herein without notice other than through the regular processes of the University. The University does not accept responsibility or liability to any person or persons who may suffer loss, or who may be otherwise adversely affected by such changes.

The University does not accept responsibility for any loss, damage, or interruption of classes, accommodations, or meals suffered by any student as a result of circumstances beyond the reasonable control of the University. These circumstances include the suspension or termination of services by any group of University employees.

Curriculum, course requirements and descriptions, academic regulations, and other academic matters are established, modified, and approved by the Senate of Acadia University. In the interpretation of academic regulations, the University Senate is the final authority. The Registrar will assist in interpreting academic regulations; however, it is the responsibility of students to see that their academic programs will meet university regulations.

The Board of Governors has final authority on all financial matters. The financial policies will be enforced through Financial Services, under the direction of the Vice-President Finance and Administration. Notwithstanding any other provision in this Calendar, Acadia University does not accept any responsibility for loss or damage suffered or incurred by any person, group, or organization as a result of suspension or termination of services, courses, or classes caused by reason of strikes, work stoppages, labour disagreements, slowdowns, lockouts, disputes, riots, weather, damage to University property, or for any other cause.

Some departments, schools, or faculties provide students with documents descriptive of their individual offerings or requirements. The Academic Calendar takes precedence over all other publications. Interpretation of regulations or requirements is made by a dean or the Registrar and is open to written appeal to the Admissions and Academic Standing Appeals Committee.

**Responsibility of Students**
It is expected that each student who registers at Acadia University will be familiar with the contents of this Calendar. By registering at Acadia, students accept responsibility for meeting all curriculum requirements and for complying with published dates and deadlines. Students also accept responsibility for being familiar with university regulations pertaining to financial matters.

If you are unsure of the meaning of any of the regulations, please contact the Registrar's Office for assistance.

Registrar’s Office
Acadia University
Wolfville, NS, B4P 2R6
Telephone: (902) 585-1222
Fax: (902) 585-1081
registrar@acadiau.ca
http://registrar.acadiau.ca

# CONTENTS


**CALENDAR DATES** ..... **5**
**ABOUT ACADIA UNIVERSITY** ..... **7**
**PART I: ADMISSION** ..... **9**
Admission to Undergraduate Programs 9
Admission to the Bachelor of Education Program 12
Admission to Graduate Programs 14
Admission to Acadia Divinity College 16
Application for Residence 16
Canadian Immigration Regulations 16
**PART II: SCHOLARSHIPS & FINANCIAL AID** ..... **18**
Undergraduate 18
Graduate 19
**PART III: FEES** ..... **22**
Payment of Fees 22
Fees 2025-2026 – Undergraduate 22
Fees 2025-2026 – Graduate 24
Other Fees (All Students) 25
Student Organization Fees 25
Acadia Students' Union Health, Dental and Medical Plan Coverage for Students 26
Late Payments 26
Residence Fees 26
Withdrawal and Cancellation 27
Undergraduate ..... 27
Graduate (Full- and Part-time) ..... 28
Income Tax Documents 29
**PART IV: RECORDS AND REGISTRATION** ..... **30**
Student Academic Records 30
Registration 31
Undergraduate Students ..... 31
Graduate Students ..... 34
Co-operative Education (Co-op) ..... 35
Open Acadia ..... 35
Academic Changes and Withdrawals 36
Undergraduate ..... 36
Graduate ..... 37
**PART V: ACADEMIC REGULATIONS AND POLICIES** ..... **39**
Degree Requirements 39
Undergraduate ..... 39
Graduate ..... 41
Academic Standing 42
Undergraduate ..... 42
Bachelor of Education ..... 43
Graduate ..... 43
Academic Integrity 44
Grading System 44
Course Assessment and Evaluation 45
Examinations 45
Regulation Interpretations and Academic Appeals 46
**PART VI: JUDICIAL POLICIES AND DISCIPLINE** ..... **47**
**PART VII: UNDERGRADUATE PROGRAMS, DEGREE REQUIREMENTS, AND COURSES** ..... **48**
Undergraduate Degree Requirements 48
Faculty of Arts 48
Faculty of Professional Studies 50
Faculty of Pure and Applied Science 51
Faculty of Theology 55
Undergraduate Programs 56
Undergraduate Level Courses 120
**PART VIII: GRADUATE PROGRAMS, DEGREE REQUIREMENTS, AND COURSES** ..... **247**
Graduate Programs 250

Graduate Level Courses 269
**DEFINITIONS** ..... **288**
**UNIVERSITY RESOURCES** ..... **290**
**FACULTY AND STAFF** ..... **296**
**INDEX** ..... **304**



# CALENDAR DATES

| 2025 | |
|---|---|
| **August** | |
| **Tuesday, 26** | Residences open for all new students (International and Canadian). |
| **Wednesday, 27** | New student orientation activities begin for students (International and Canadian). |
| **September** | |
| **Monday, 1** | Labour Day. |
| | Residences open for returning students. |
| **Wednesday, 3** | Classes begin for Fall courses. |
| | Fee payment deadline. |
| **Friday, 5** | Last day to apply for Fall Graduation (all students). |
| **Thursday, 11** | Last day to add/change any Fall course sections. |
| | Last day to withdraw from a Fall course without a "W" appearing on the transcript. |
| **Thursday, 25** | Deadline for approved honours theses for Fall graduands. |
| **Friday, 26** | Last day to submit final Master's theses. |
| | Last day to decrease meal plan for Fall term. |
| **Tuesday, 30** | National Day for Truth and Reconciliation – no classes. |
| | Last day to opt out of ASU Health Plan or add dependents. |
| **October** | |
| **Wednesday, 1** | Co-op Application Deadline. |
| | Last day to receive grades for Fall graduands. |
| **Thursday, 2** | Exam schedule posted for December examinations. |
| **Friday, 3** | Last day to submit an appeal to the Academic Appeals Committee due to significant extenuating circumstances. Students will be notified 2 weeks + 3 working days from submission date. |
| **Tuesday, 7** | Faculty meeting for approval of Fall graduands. |
| **Wednesday, 8** | Senate meeting to approve Fall graduands and declaration of award of degrees and diplomas*. |
| **Monday, 13** | Thanksgiving Day - no classes. |
| **Tuesday-Friday, 14-17** | Fall study break – no classes. |
| **November** | |
| **Tuesday, 11** | Remembrance Day - no classes. |
| **Friday, 21** | Last day to withdraw from a Fall term course and receive a "W". Any Fall course withdrawals after today will receive an "F" grade. |
| **December** | |
| **Friday, 5** | Last day of classes. |
| **Saturday-Sunday, 6-7** | Examination study days. |
| **Monday, 8** | Fall term examinations begin. |
| **Tuesday, 16** | Last day to submit final Master's theses. |
| **Friday, 19** | Fall term examinations end. |
| **Saturday, 20** | Residences close (12:00 noon) |
| **2026** | |
| **January** | |
| **Saturday, 10** | Residences open for new International and Canadian students. |
| **Sunday, 11** | Residences open for returning students (12:00 noon). |
| | New Student Orientation activities for students beginning studies in the Winter 2026 semester. |
| **Monday, 12** | Classes begin for Winter term courses. |
| | Fee payment deadline. |
| **Wednesday, 14** | Last day to apply for Spring graduation (all students). |
| **Friday, 23** | Last day to decrease meal plan for Winter term. |
| **Wednesday, 28*** *changed from Jan. 20 due to Dec. 8 snow day | Last day to add/change any Winter course sections. |
| | Last day to withdraw from a Winter course without a "W" appearing on the transcript. |
| **Saturday, 31** | Last day to opt out of ASU Health Plan or add dependents for students newly eligible on the ASU Health and Dental Plans. |

| | |
|---|---|
| **February** | |
| **Thursday, 5** | Final exam schedule posted for April examinations. |
| **Monday, 16** | Heritage Day - no classes. |
| **Tuesday-Friday, 17-20** | Winter study break - no classes. |
| **Saturday, 21** | Exchange Program Application Deadline (1st Round - Full Academic Year & Semester 2 Exchange) |
| **March** | |
| **Friday, 27** | Last day to withdraw from Winter term courses and receive a "W". Any course withdrawals after today will receive an "F" grade. |
| **April** | |
| **Friday, 3** | Good Friday – no classes. |
| **Friday, 10** | Last day of classes. |
| **Saturday-Sunday, 11-12** | Examination study days. |
| **Monday, 13** | Winter term examinations begin. |
| | Deadline for approved honours theses for Spring graduands. |
| **Thursday, 23** | Winter term examinations end. |
| | Last day to submit final Master's theses. |
| **Friday, 24** | Residences close (12:00 noon). |
| **May** | |
| **Monday, 4** | Last day to receive grades for Spring graduands. |
| **Tuesday, 5** | Faculty meeting to approve Spring graduands. |
| **Wednesday, 6** | Senate meeting to approve Spring graduands. |
| **Monday, 11** | Classes begin for Summer 1 courses. |
| **Wednesday, 13** | Baccalaureate Service. |
| **Thursday-Friday, 14-15** | Spring Convocation graduation ceremonies. |
| **Monday, 18** | Victoria Day - no classes. |
| **Friday, 22** | Students placed on academic dismissal or probation will be notified. |
| **Friday, 29** | Examinations for Summer 1 courses. |
| **Saturday, 31** | Last day to opt out of ASU Health Plan or add dependents for 16-month Bachelor of Education students. |
| **June** | |
| **Monday, 1** | Classes begin for Summer 2 courses. |
| **Friday, 12** | Last day to submit an appeal to the Academic Appeals Committee. Students will be notified of decision 2 weeks + 3 working days from submission date. |
| **Friday, 19** | Examinations for Summer 2 courses. |
| **Monday, 22** | Classes begin for Summer 3 courses. |
| **Friday, 26** | Students placed on academic dismissal or probation due to grade changes will be notified. |
| **July** | |
| **Wednesday, 1** | Canada Day Holiday - no classes. |
| **Friday, 10** | Examinations for Summer 3 courses. |
| **Monday, 13** | Classes begin for Summer 4 courses. |
| **Friday, 24** | Last day to submit an appeal to the Academic Appeals Committee due to grade changes. Students will be notified of decision 2 weeks + 3 working days from submission date. |
| **Friday, 31** | Examinations for Summer 4 courses. |

*While degrees are awarded in both the Fall and Spring terms, Acadia University holds graduation ceremonies for all graduates at the Spring Convocation only.

# ABOUT ACADIA UNIVERSITY

Founded in 1838, Acadia University is one of the oldest and most respected liberal arts universities in Canada. Located just a one-hour drive from Halifax, Nova Scotia and its international airport, Acadia is an integral part of the quintessential college town of Wolfville, overlooking the Annapolis Valley and the Bay of Fundy.

Acadia's 3,600 students come from nearly every province and nearly 70 countries to take advantage of our strong academic programs, a curriculum that encourages personal development, and collaborative learning experiences led by award-winning professors.

Students become part of a scholarly community that encourages and inspires them. Community engagement, real-world opportunities, and meaningful research at the undergraduate level are pillars of an Acadia education. The University recognizes that learning means living every moment in and out of class. Working closely with their professors can be transformative for our faculty and students and often results in lifelong friendships.

In addition to the academic experience, co-curricular and campus life programs enhance learning opportunities and help students develop teamwork and leadership skills. Acadia has a long tradition of respecting diversity. Each member of the community has different experiences to share, enriching classroom and casual interactions.

Our liberal arts curriculum, combined with the intangible Acadia spirit and sense of belonging, lays a strong foundation for our students' future aspirations – travel, post-graduate study, careers, and family. An Acadia education helps our students grow and prepares them for a transforming world.

**Vision**
Acadia University is the top choice for students seeking a transformative university experience dedicated to unleashing their potential to prepare them for a transforming world.

**Acadia's Mission**
Acadia University provides an unparalleled learning experience through a liberal education model based on personalized attention, expanding the boundaries of knowledge, experiential learning, community engagement, environmental stewardship, global citizenship, and engaged research and innovation delivered by a passionate, dedicated, and nurturing community within a beautiful and historic campus environment.

**Academic Excellence**
By choosing Acadia, you have opportunities to work closely with professors, volunteer in the community, study abroad, enjoy Co-op placements, and be engaged in real-world research. Acadia's four faculties – Arts, Pure and Applied Sciences, Professional Studies, and Theology – offer more than 200 degree combinations in its undergraduate academic programs and graduate programs.

**Values**
Acadia's values help define who we are and guide our aspirations for the future. They provide the foundation of our strategic plan, Acadia 2025.

- Caring for our students
- Educating the whole person
- Critical thinking, creativity, emotional intelligence, resilience, entrepreneurial spirit, and technological competence
- Global citizenship and responsibility
- Passionate community engagement
- Diversity, inclusivity, equity, and respect
- Excellence in academic, research, scholarly, professional, and personal achievement
- Environmental stewardship and sustainability
- Truth and reconciliation with Indigenous peoples of Canada
- Social justice, human rights, the common good
- Engaged in partnerships and outreach for regional development
- Authentic relationships with the community and alumni
- Responsible management and allocation of resources

**Classroom Conduct and Learning and Work Environment Free from Discrimination and Harassment**
The freedom to explore, express, and evaluate different ideas is a critical part of Acadia's mission. Students are always encouraged to share their opinions and challenge accepted ways of thinking. By the same token, students should expect to have their own beliefs and values challenged, both by their instructor and by their classmates.

The free exchange of ideas can be an uncomfortable, confusing, and even upsetting experience, but it is vital to the learning process. As such, the learning process is only possible in an environment that is welcoming and reflective of the diverse individuals that comprise this community and aims to build cultural safety, anti-oppression, and anti-racism into every level of service delivery within the University Community, making it our goal to achieve a culture where our diversity is our strength.

Acadia upholds a fundamental commitment to freedom of expression and association for all its members and to Academic Freedom for faculty. In exercising those freedoms, all of its members are required to respect the rights and freedoms of others, including the right to freedom from Discrimination and Harassment.

Acadia recognizes that supporting an environment free of Discrimination and Harassment is important for the well-being and dignity of individuals as well as for the overall climate and welfare of the University Community. Accordingly, Acadia is committed to providing the policies, resources, and organizational structures required to support an environment free from Discrimination and Harassment. (adapted from Section 2.2, 2.3 and 2.4 of Acadia's Policy Against Harassment and Discrimination, 2022).

There are times when it can be hard to tell the difference between speech that is controversial and speech that is hateful. Ultimately, it is the responsibility of the instructor to make this distinction, following guidelines laid out in Acadia University's Policy Against Harassment and Discrimination, 2022 and the Nova Scotia Human Rights Act. Senate Minutes/14th December, 2020 - Page 35. For more information, as well as for resources for students who believe they may have experienced or witnessed discrimination, sexual harassment, or personal harassment please contact Acadia's Human Rights and Equity Office at equity@acadiau.ca, and/or visit the website: https://www2.acadiau.ca/student-life/equity-judicial/equity.html.

## Land Acknowledgement

We recognize that Acadia University is on the unceded, un-surrendered ancestral and present-day lands of the Mi'kmaw nation called Mi'kma'ki. Acadia University is located within the district of Sɨpekne'katik, the area of wild turnip and potato, in the place they called Esoqwatik, "where the water stops". It is a place that is rich with the stories of Kluscap and home to the Mi'kmaw creation story. This territory is covered by the Peace and Friendship treaties, which are a chain of treaties signed by Mi'kmaq, Wolastoqiyik, and Passamaquoddy nations and the British Crown. Acadia University is a place that as Indigenous persons, settlers and newcomers we co-exist in the spirit of Peace and Friendship. We pay respect to this land, its people, the L'nu, and show gratitude for their hospitality and teachings. Wela'lin. Thank-you.

## African Nova Scotian Recognition

We recognize that African Nova Scotians are a distinct people whose histories, legacies and contributions have enriched that part of Mi'kma'ki known as Nova Scotia for over 400 years.

# PART I: ADMISSION

In keeping with the form and intent of the original Act of Incorporation, Acadia University admits academically qualified students of any age, sex, gender, race, religion, creed, color or ethnic or national origin to all the rights, privileges, programs, and activities generally accorded or made available to the students at the University. It does not discriminate on the basis of age, color, religion, creed, sex, gender, sexual orientation, physical or mental disability, an irrational fear of contracting an illness or disease, ethnic, national or aboriginal origin, family status, marital status, source of income, political belief, affiliation or activity in administration of its educational policies, scholarship and loan programs and athletic and other university administered programs.

## Application Procedures

Applications for admission to Acadia University must be made online or on the prescribed application form and must be supported by official copies of all high school and other records of academic work. These documents must be submitted to the Admissions Office together with the appropriate application processing fee. Applicants who are attending, or who have attended, other postsecondary institutions must have their official transcripts sent direct for evaluation or provided in an envelope sealed by the institution. Further evidence may be required of an applicant's suitability for certain programs of study such as Education and Music.

In all cases, it is the applicant's responsibility to ensure that all documents related to or requested in support of an application are submitted, including final marks needed to confirm a previous offer of conditional admission.

If an offer of admission is made by the University to the applicant, an acceptance deposit must be sent. This deposit is, in all instances, not refundable. It is applied in full to university fees at the time of registration. Details of the amount of the deposit are stated in the letters of admission.

Documents submitted in support of an application for admission are retained by the University and are not returned to the applicant.

Information and documents received for persons who do not register by their expected date are retained for one year beyond the expected date of registration and then destroyed.

Enrolment in some programs is limited by Senate regulation. Consequently, admission is competitive, and possession of the minimum requirements does not ensure that admission will be granted.

### Application Accuracy

Students are expected to provide full and accurate information about their previous studies. Students who through the application process fail to provide complete and accurate information, including not disclosing attendance at another institution, will be reviewed by the appropriate offices (i.e., Graduate Studies, Admissions, Registrar's Office). The University reserves the right to withdraw an offer of admission or to terminate an active registration if it is determined that relevant information has been misrepresented or withheld. Students will be informed of this decision and have the right to appeal. Written appeals may be made to the Admissions and Academic Standing (Appeals) Committee.

## Admission to Undergraduate Programs

### Admission from High School

When planning their secondary school programs, students should note that a number of courses taken in the first university year have secondary school prerequisites. Generally, students continuing university work in subjects available in secondary school are advised to have senior year secondary school standing in those subjects.

Only academic (university preparatory) high school courses are acceptable for admission. The University reserves the right to exclude inappropriate courses from among those presented.

All programs require senior high school completion for admission, although exceptions may be made for very capable students to enter following their penultimate high school year (except from Quebec). All programs require four years of study except the Certificate in Applied Science (CAS) and the Bachelor of Applied Science. The CAS is a prerequisite to the Bachelor of Engineering program at Dalhousie University.

All students must present a penultimate (NS Grade 11 or equivalent) high school year course in mathematics.

### From Nova Scotia Grade 12

Only academic, university preparatory courses at the senior (NS Grade 12 or equivalent) high school level will be used to determine admissibility. Required courses:

1. English 12
2. Four additional Grade 12 Academic or Advanced courses

**Additional Grade 12 courses necessary for specific programs**

| | |
|---|---|
| Applied Bioscience: | Mathematics 12 or Precalculus 12 and Chemistry 12 with a minimum 60% in both. |
| Applied Science: | Precalculus 12 or Calculus 12 and Chemistry 12 with a minimum 60% in both. Physics 12 recommended. |
| Biology: | Mathematics 12 or Precalculus 12 or Calculus 12, and Chemistry 12 with a minimum 60% in Chemistry. Minimum overall average of 75%. |
| Business: | English 12 with a minimum 70% and Mathematics 12 or Precalculus 12. |
| Chemistry: | Precalculus 12 or Calculus 12, and Chemistry 12 with a minimum 60% in both. |
| Community Development | Mathematics 12 or Precalculus 12 or Calculus 12. |
| Computer Science: | Precalculus 12 or Calculus 12 with a minimum 60%. |
| Economics: | Bachelor of Arts – Mathematics 12 or Precalculus 12 or Calculus 12.<br>Bachelor of Science – Precalculus 12 or Calculus 12 with a minimum 60%. |
| Environmental Science: | Mathematics 12 or Precalculus 12 or Calculus 12, and Chemistry 12 with a minimum 60% in Chemistry. |
| Geology: | Mathematics 12 or Precalculus 12, and Chemistry 12. |
| Environmental Geoscience: | Mathematics 12 or Precalculus 12 or Calculus 12, and Chemistry 12 with a minimum 60% in Chemistry. |
| Kinesiology: | Mathematics 12 or Precalculus 12 or Calculus 12. Minimum overall average of 75%. |
| Mathematics: | Precalculus 12 or Calculus 12 with a minimum 70%. |
| Music: | All prospective music students will complete a School of Music application. For students interested in the Bachelor of Music and Bachelor of Music Therapy degrees, a live (or recorded) audition is required with the application. |
| Nutrition: | Mathematics 12 or Precalculus 12 or Calculus 12, and Chemistry 12 with a minimum 60% in Chemistry. |
| Physics: | Precalculus 12 or Calculus 12 with a minimum 60%. Physics 12 recommended. |
| Psychology: | Mathematics 12 or Precalculus 12 or Calculus 12. Minimum overall average of 75%. |

**Equivalent certificates from other provinces**
For admission purposes, the senior high school university preparatory program in all provinces except Quebec is considered equivalent to Nova Scotia Grade 12. Exceptions may be made for very capable Quebec Secondary V applicants. Normally, one year of CEGEP study is considered equivalent to Nova Scotia Grade 12. Students who complete the two-year CEGEP program with a 70% average and receive the DEC will be admitted to the second year of a four-year program. A list of specific guidelines by province is available on our website.

**From the American system of education**
Applicants who have completed a United States high school university preparatory program with an average mark equivalent to the college recommending mark in 16 academic subjects, including four courses in English and three in mathematics, will be considered for admission to a four-year degree program.

**From the British system of education**
Normally two General Certificate of Education “A” level examinations, or equivalent, at the grade “C” level or above are required for admission to any program. However, an applicant who has completed one year of study beyond GCE “O” level will be considered on an individual basis. Credit for appropriate ‘A’ level courses may be given if completed with grades of A, B, or C.

**Admission from the International Baccalaureate Program**
Students will be considered for admission using the International Baccalaureate (IB) Diploma with a minimum score of 24. Students admitted to Acadia University with a score of 30 or higher on the IB Diploma will receive 30 credit hours (30h) of university credit. Students who have completed IB courses but do not possess the diploma will be considered based on their coursework. Acadia gives individual credit for IB courses completed at the higher level with grades of 5, 6, or 7.

IB final and predicted results may be used to consider applicants for both early Fall and regular admission, as well as entrance scholarship.

| IB Course | Acadia Equiv. | Credit Hours |
|---|---|---|
| Art | ART 9106 | 6h |
| Art (Visual) | ART 2013 and ART 2023 | 6h |
| Biology | BIOL 1113 and BIOL 1123 | 6h |
| Chemistry | CHEM 1013 and CHEM 1023 | 6h |
| Computer Programming 1 | COMP 1113 and COMP 1123 | 6h |
| Computer Science | COMP 1113 | 3h |
| Economics | ECON 1013 and ECON 1023 | 6h |
| English | ENGL 1413 and ENGL 1423 | 6h |
| Environmental and Societies | ENVS 9106 | 6h |
| Film | ELEA 9016 | 6h |

| | | |
|---|---|---|
| French Language | FRAN 9106 | 6h |
| French Literature | FRAN 2113 and FRAN 2123 | 6h |
| Geography | ELES 9106 | 6h |
| German | GERM 1013 and GERM 1023 | 6h |
| History | HIST 9106 | 6h |
| History Africa/Middle East | HIST 2033 and HIST 2043 | 6h |
| History Americas | HIST 2303 and HIST 2313 | 6h |
| History/European | HIST 1413 and HIST 1423 | 6h |
| History Asia/Oceania | HIST 9106 | 6h |
| Information Technology in Global Society | SOCI 9106 | 6h |
| Mathematics Analysis and Approaches SL | MATH 1013 | 3h |
| Mathematics Analysis and Approaches HL | MATH 1013 and MATH 1023 | 6h |
| Mathematics (Further) | MATH 1313 | 3h |
| Mathematics Studies | Mathematics 12 | -- |
| Music | MUSI 9106 | 6h |
| Philosophy | PHIL 1106 | 6h |
| Physics | PHYS 1013 and PHYS 1023 | 6h |
| Psychology | PSYC 1013 and PSYC 1023 | 6h |
| Spanish | SPAN 9106 | 6h |
| Spanish | SPAN 1013 and SPAN 1023 | 6h |
| Theatre | THEA 1483 | 3h |
| Theory of Knowledge | ELEA 9106 | 6h |
| Visual Arts | ART 2013 and ART 2023 | 6h |

**Admission with Advanced Placement (AP) Tests**

All AP students will receive advanced credit in approved courses as indicated below to a maximum of 30 credit hours (30h). An official AP transcript is required as part of the evaluation process.

| AP Course | AP Grade | Acadia Equiv. | Credit Hours |
|---|---|---|---|
| Art | 3, 4, 5 | ART 1813 and ART 1823 | 6h |
| Art Drawing | 3, 4, 5 | ART 2013 and ART 2023 | 6h |
| Biology | 3, 4, 5 | BIOL 1113 and BIOL 1123 | 6h |
| Business Management | 3, 4, 5 | BUSI 1703 and BIOL 9103 | 6h |
| Capstone Research | 3, 4, 5 | ELEA 9103 | 3h |
| Capstone Seminar | 3, 4, 5 | ELEA 9113 | 3h |
| Chemistry | 3, 4, 5 | CHEM 1013 and CHEM 1023 | 6h |
| Computer Science A | 3, 4, 5 | COMP 1113 | 3h |
| Computer Science A/B | 3, 4, 5 | COMP 1113 and COMP 1123 | 6h |
| Economics/Micro | 3, 4, 5 | ECON 1013 | 3h |
| Economics/Macro | 3, 4, 5 | ECON 1023 | 3h |
| English Language/Composition | 3, 4, 5 | ENGL 1213 and ENGL 1223 | 6h |
| English Literature/Composition | 3, 4, 5 | ENGL 1483 and ENGL 1493 | 6h |
| Environmental Science | 3, 4, 5 | ENVS 1013 and ENVS 1023 | 6h |
| French Language | 3, 4, 5 | FRAN 1213 and FRAN 1223 | 6h |
| French Literature | 3, 4, 5 | FRAN 2113 and FRAN 2123 | 6h |
| German Language | 4, 5 | GERM 1013 | 3h |
| Government & Politics/ American or Comparative | 3, 4, 5 | POLS 1303 and POLS 1403 | 6h |
| History/European | 4, 5 | HIST 1413 and HIST 1423 | 6h |
| History/US | 4, 5 | HIST 9106 | 6h |
| History/Modern | 4, 5 | HIST 1423 and HIST 9103 | 6h |
| Human Geography | 3, 4, 5 | SOCI 1013 and SOCI 1113 | 6h |
| Latin | 3, 4, 5 | LANG 9106 | 6h |
| Mathematics/Calculus A/B | 3, 4, 5 | MATH 1013 | 3h |
| Mathematics/Calculus B/C | 4, 5 | MATH 1013 and MATH 1023 | 6h |
| Mathematics/Calculus B/C | 3 | MATH 1013 | 3h |
| Music | 3, 4, 5 | MUSI 9106 | 6h |
| Physics 1 | 3, 4, 5 | PHYS 1053 | 3h |
| Physics 2 | 3, 4, 5 | PHYS 1063 | 3h |
| Physics B | 3, 4, 5 | PHYS 1053 and PHYS 1063 | 6h |
| Physics C | 3, 4, 5 | PHYS 1013 and PHYS 1023 | 6h |
| Psychology | 3, 4, 5 | PSYC 1013 and PSYC 1023 | 6h |
| Spanish Language | 3, 4, 5 | SPAN 1013 and SPAN 1023 | 6h |
| Statistics | 4, 5 | MATH 1253 | 3h |

**Capacity-Based Admissions**
For a select number of programs at Acadia space is limited. As each applicant is unique and every enrolment cycle differs, capacity-based admissions that adjust each year may be employed.

**Admission from Other Than High School**
**Admission by Transfer from Another University**
Applicants for admission from another university must have an official transcript sent direct or provided to you in an envelope sealed by the institution for evaluation. Transfer credit normally will be given for individual courses which are applicable to the intended undergraduate degree program of study. Normally, a maximum of 60h can be transferred to a four-year degree program.

**Admission by Letter of Permission**
Students now attending another university and who wish to take a course or courses at Acadia University for transfer credit to their home institution must apply on the regular Acadia Application for Admission form and have the Registrar of their university forward a letter of permission and an official transcript to the Admissions Office at Acadia University.

**Admission of Mature Students**
Persons who wish to study on a full-time basis, who have been out of high school for a minimum of four years, and who do not meet the published academic admission requirements may be considered for admission on a mature student basis. The mature applicant is required to submit transcripts of all academic work completed, two letters of reference from employers, an outline of future plans, and to be present for interviews if required. The mature applicant may be encouraged to take up to 18h specified courses as an independent part-time student. If minimum grades of C- are obtained in each and a minimum CGPA achieved of 2.00, admission will be granted to a degree program and credit for these courses will be allowed towards it.

**Admission by Prior Learning Assessment and Recognition (PLAR)**
Prior Learning Assessment and Recognition (PLAR) allows for students to be recognized for both admission and credit equivalency purposes towards Acadia programs based upon previous professional, cultural, and/or lived experiences and learning. The University recognizes that knowledge, skills, and abilities can be acquired through various experiences (formal, informal, and non-formal), as well as demonstrated in varying ways. If a student believes that their prior learning experiences should be considered for admission and/or credit towards Acadia courses, they can apply for PLAR. See page 39 in this Calendar for the full PLAR policy.

**Re-Admission of Former Students**
All students who have been absent from the University for 12 months or longer, or who have graduated from the program of studies to which they were admitted, or who were subject to academic dismissal, and who wish to return for further studies, must apply for re-admission and complete the required application form. Dismissed students will be re-admitted to Acadia with an academic standing of probation.

**English Language Proficiency**
Since English is the language of instruction at Acadia University, candidates must be able to communicate competently in English, both orally and in writing, and may be required to present the result of an English language test. The minimum acceptable TOEFL score is 90 with no subtest score below 20. We also accept an overall IELTS score of 6.5 (with no subtest score below 6.0), a CAEL score of 70 (with no subtest score below 60), a PTE Academic score of 61 (no subtest score below 60), a Cambridge C1 Advanced Exam score of 180 (no subtest score below 173), a Cambridge B2 First Exam score of 180 (no subtest score below 173), a Language Cert Academic score of 70-74 (no skill under 65), an Oxford Test of English Advanced score of 135, and a Duolingo English Test (DET) score of 115 (no subtest score below 90).

## Admission to the Bachelor of Education Program

In keeping with our commitment to diversifying representation in our Bachelor of Education program with a view to graduating teachers who better reflect the diversity of students in our public school system, we encourage applications from minoritized or under-represented groups.

Applicants will be carefully selected after examination of all relevant information. Not all applicants who meet the minimum admission requirements will be admitted. The University reserves the right to refuse admission to any applicant.

**Bachelor of Education Admission Requirements:**

1. A recognized bachelor's degree with a minimum GPA of 2.67 (70%) in the last three years (90 credit hours) of undergraduate study.
2. Three reference forms – one academic reference and two references that speak to teaching potential.
3. An interview may be required.
4. Experience working with children and/or adolescents, for example, as a coach, counselor, parent, tutor, etc.
5. Provincial regulations require BEd students to pass a child abuse registry and criminal record check. This will be required prior to the program start date.

**Note:** The School of Education recognizes that certain extenuating circumstances may have prevented some applicants from meeting the 2.67 GPA requirement, that those who completed their undergraduate studies some time ago may not be able to obtain useful academic references, and that not everyone has equal opportunities to engage in employment or volunteer activities with children or

adolescents. Our application package allows applicants to identify details of their individual circumstances that may have prevented them from meeting some requirements, and we urge applicants to disclose all relevant information.

**Academic Background**
The Bachelor of Education program is divided into two streams: Elementary and Secondary. These streams have additional admissions requirements related to candidates' academic background.

**Academic Background Requirements: Elementary Stream**

1. 6 credit hours (6h) in university social studies coursework from any one or combination of the disciplines: History (with a preference for local and Canadian History), Geography, Economics, Politics, Anthropology Sociology, Law, Classics, African Canadian Studies, Mi'kmaq Studies, Acadian Studies, and/or Philosophy.
2. 6 credit hours (6h) in university science coursework from any one or combination of the disciplines as listed under the Subject Fields/Recognized Discipline Chart.
3. 6 credit hours (6h) in university math coursework with a preference for a course in fundamental concepts. Comment – Most institutions have a mathematics course designed for those who intend to become elementary school teachers. Math 1533, Mathematical Concepts 1, and Math 1543, Mathematical Concepts 2, are available online from Acadia, or any Fundamental Concepts in Mathematics course would be acceptable.
4. 6 credit hours (6h) in university English coursework if undergraduate degree is delivered in English or 6 credit hours (6h) in university French coursework if undergraduate degree is delivered in French.

- With permission of the Director, School of Education, a maximum of 3 credit hours (3h) of the Elementary Education Prerequisites identified above may be completed in the first year of the BEd. This is considered upon review of the application to the program.
- With permission of the Director, School of Education, a maximum of 6 credit hours (6h) of cognate coursework may be recognized in fulfillment of the individual subject field requirements identified above as Elementary Education prerequisites. This is considered upon review of the application to the program.

**Academic Background Requirements: Secondary Stream**

1. A concentration of at least 30 credit hours (30h) of university coursework in a discipline as listed under the Subject Fields/Recognized Discipline (see below); not to include Canadian Studies or Anthropology, a maximum of 6 credit hours (6h) of cognate university coursework may be included in fulfillment of this requirement with permission of the Director, School of Education.
2. A concentration of at least 18 credit hours (18h) of university coursework in a second discipline preferably but not necessarily different subject field than the 30 credit hour (30h) concentration as listed under Subject Field/Recognized Discipline (not to include Canadian Studies), a maximum of 6 credit hours (6h) of cognate university coursework may be included in fulfillment of this requirement with permission of the Director, School of Education.

- With permission of the Director, School of Education, a maximum of 3 credit hours (3h) of the Secondary Education prerequisites identified above may be completed in the first year of the BEd. This is considered upon review of the application to the program.

**Subject Fields/Recognized Discipline Chart**
NOTE: The Acadia School of Education provides coursework towards teacher certification in the following subject fields.

| **Subject fields** | **Recognized Disciplines** |
|---|---|
| English | English |
| French | French |
| Mathematics | Mathematics |
| Science | Biology, Chemistry, Physics, Geology/Earth Sciences, Environmental Studies, Oceanography Studies |
| Social Studies | African-Canadian Studies, History, Geography, Politics, Sociology, Economics, Mi'kmaq Studies, Law, Classics, Anthropology (second teachable only) |
| Physical Education | Physical Education, Kinesiology |
| Music * | Music |
| Technology Education | Technology Education, Computer Science |

* Music may only be used as a second teachable with special consideration.

**Teacher Certification**
The Nova Scotia Education Act requires that any person employed as a public school teacher hold a teacher's certificate issued by the provincial Department of Education. Sole authority to issue such teaching certificates rests with the Department of Education. A degree or a transcript of credit from a university is not a certificate or authority to teach in Nova Scotia. The Acadia Bachelor of Education degree normally results in the awarding of an Initial Teaching Certificate by the Nova Scotia Department of Education. Other programs lead to certification advancement in accordance with Department of Education regulations. Some certification requirements refer to academic work done prior to beginning the BEd program. For the most up-to-date requirements consult the Registrar of Teacher Certification at the Nova Scotia Department of Education.

BEd programs cannot be taken through part-time study and must be completed within three years of initial registration.

## Admission to Graduate Programs

Admission to graduate programs is coordinated by the Graduate Studies Office. Inquiries concerning details of specific graduate programs should be addressed to the Graduate Studies Officer by emailing gradadmissions@acadiau.ca. If you are interested in pursuing a degree other than the Master of Education on a part-time basis, please consult with the department/school in question to see if they can accommodate your request.

**Graduate Program Entrance Requirements**

Candidates for admission to the graduate programs of Acadia University must possess an Honours degree or a four-year bachelor's degree from an approved university. Those candidates possessing a major in a field other than that of their graduate program will normally be required to take sufficient undergraduate courses to make up the equivalent of an Acadia undergraduate major. Special consideration may be given to those candidates wishing to change from one undergraduate field to a related graduate one.

Candidates must have at least a B- average (70%) in the courses taken in the major field in the last two undergraduate years (or 60h) of university study, including coursework in undergraduate degree(s) and any graduate work completed. Applicants to all MEd programs must have at least a B average (73-76%) in their final two years of full-time equivalent (60h) university study, including coursework in undergraduate degree(s) and any graduate work completed.

It is expected that applicants will review the applicable graduate program website to learn about faculty research specializations and connect with possible research supervisors ***before*** applying to see what resources are available to them.

Admission is highly competitive, and the number of students admitted each cycle or year may vary depending on the applicant pool and resource availability. It is important to note that possession of the minimum requirements ***does not*** guarantee admission. Our programs are small to reflect our university tradition of personal contact and individual attention; unfortunately, we cannot accept all applicants, and excellent students are often not accepted. All prospective students are encouraged to apply and will be considered based on resource availability and evidence of probable success in their chosen program. The admitting average varies and can be competitive depending on the program of choice. For research-based programs, it is important to note that lack of faculty resources due to program over-capacity, or similar reasons, could also result in an unfavorable admission decision that is not related to the merit of the admission application. Applicants will only be considered for a program when a formal application, all supporting documentation, and the applicable application fee, is received.

Admission to research-based programs is centred on evidence of overall academic excellence, including research ability, critical thinking, writing ability, and knowledge of and aptitude for the area of research interest. This evidence may be provided in applicants' transcripts (including both the courses taken and the grades earned), resume, confidential reference letters/on-line reference forms, writing sample, and/or statement of research interests.

Several programs have a requirement to identify/secure a willing Acadia supervisor prior to applying as a key piece of entry/admission.

For further details pertaining to a specific program, please refer to: https://www2.acadiau.ca/admissions/graduate-application.html

**Offer of Admission**

Students are expected to have sufficient means of financial support for the length of time normally required to complete the graduate program in which they intend to enrol.

The offer of admission is a contract with the student. There is currently ***no*** university-mandated minimum level of financial support for graduate students, although many graduate programs have established internal policies indicating such an amount (e.g. our Master of Science in BIOL, CHEM, ENVS, GEOL and GEOM).

Students are encouraged to work with their supervisors, or Graduate Coordinators (in the case of our Master of Arts programs), to identify funding opportunities when funding is not noted in the offer letter. The Graduate Studies Office is not responsible for this and should not be contacted for funding.

All applicants to graduate studies are strongly encouraged to seek external funding support.

**Application Deadlines**

| | | |
|---|---|---|
| Master of Arts (MA) | English | February 1* |
| | Political Science | February 1* |
| | Social and Political Thought | February 1* |
| | Sociology | February 1* |
| Master in Community Development (MCD) | | February 1* |
| Master of Applied Kinesiology (MAK) | | February 15* |
| Master of Science (MSc) | Applied Geomatics | contact department |
| | Biology | February 1* |
| | Chemistry | February 1* |
| | Computer Science | February 1* |
| | Environmental Science | contact department |

| | | |
|---|---|---|
| | Geology | February 1* |
| | Mathematics and Statistics | February 1* |
| | Psychology | December 15* |
| | Curriculum Studies | International applicants: February 2<br>Canadian applicants: March 2 |
| | Counselling | December 4 |
| Master of Education (MEd) | Inclusive Education | April 30 |
| Doctor of Educational Studies (PhD) | | November 15 for June 1 entry |

* Deadline for applicants who wish to be considered for internal funding.
For further details on the admission deadlines, please visit: http://www2.acadiau.ca/admissions/graduate-application.html

**English Language Proficiency**
Since English is the language of instruction at Acadia University, candidates must be able to communicate competently in English, both orally and in writing, and may be required to present the result of an English language test. The minimum acceptable Test of English as a Foreign Language (TOEFL) score is 580 paper-based test or an overall IBT/IBT Home Edition score of 93 (with no subtest score below 20). We also accept an overall IELTS (Academic) score of 6.5 (with no subtest score below 6.0) or a CAEL score of 70 (with no subtest score below 60). We also accept a PTE Academic score of 61 with no subtest score below 60. Students not having sufficient communication skills in the English language may be required to enrol in remedial programs (e.g., English as a Second Language course, tutorials) at their own expense.

**Application Procedures**
Applications for admission to Acadia University must be made online with the appropriate non-refundable application processing fee. Applicants who are attending, or who have attended, other post-secondary institutions must have their official transcripts sent direct for evaluation or provided in an envelope sealed by the institution. These documents must be mailed to the Graduate Studies Office. Please mail to: Graduate Studies, Box 70, Wolfville, NS, B4P 2R6.

In all cases, it is the applicant's responsibility to ensure that all documents related to or requested in support of an application are submitted, including final marks needed to confirm a previous offer of conditional admission.

If an offer of admission is made by the University to the applicant, an acceptance deposit must be sent. This deposit is, in all instances, non-refundable. It is applied in full to university fees at the time of registration. Details of the amount of the deposit are stated in the letters of admission.

**Graduate Application Retention Policies**
1. Documents submitted in support of an application for admission are retained by the University and are not returned to the student.
2. Applications that go unsubmitted will be deleted from our system when the deadline has passed for program consideration.
3. Submitted applications that are missing required supporting documentation and/or applicable application fee will be withdrawn when the deadline has passed for program consideration.
4. Applications requiring an Acadia supervisor's approval that are not submitted within 30 days of being started, will be deleted from our system.
5. Two (2) years after the start of the application year, any applicant not admitted to a program will have their application and all personal data deleted from our system.
6. Those applicants that are admitted to a graduate program will have their application and personal data deleted from our system eight (8) years after being admitted.

**Documented Disability**
For student loan purposes, a graduate student with a documented disability, confirmed through their student loans in their continuance year, can be considered full-time if they're registered in at least a 40% course load (thesis plus 3h in both Fall and Winter semesters).

For student loan purposes, a graduate student confirmed through their student loan office as a student with a documented disability on student loans in their continuance year would be considered part-time if they're only registered in the thesis (20% course load) in the Fall and Winter semesters.

Students with any questions should connect with Accessible Learning Services at accessible.learning@acadiau.ca or Student Accounts at student.accounts@acadiau.ca.

**Re-Admission of Former Students**
All graduate students (excluding MEd students) who have been absent from the University for one semester, or who have graduated from the program of studies to which they were admitted, or who were subject to academic dismissal, and who wish to return for further studies, must re-apply for admission and complete the required application form. PLEASE NOTE that re-admission to a program is not guaranteed.

## Applying for Summer Courses

Summer courses are delivered during the months of May, June, July, and August. Courses in subjects for most disciplines are offered during compressed terms, with most courses being three weeks in duration. Regular Acadia University application policies and procedures apply. Graduate Education courses by the School of Education are also offered in the Summer through Open Acadia.

## Applying for Online, Continuous-intake Courses

Nearly 100 online, continuous-intake credit courses are offered at Acadia. These courses are typically self-paced, and students have up to 6 months to complete a 3 credit hour (3h) course. Regular Acadia University admission policies and procedures apply. Part-time students can register for a maximum of 12 credit hours (12h) of online learning courses at any one time. Full-time Acadia students may take online courses during the Spring and Summer period, or at other times during the year with permission of their Dean, Director, or Department Head. Acadia students graduating in May must complete their online courses by April 15th to allow time for the processing of grades before graduation. Online, continuous-intake courses are not included in full-time tuition fees.

## Admission to Acadia Divinity College

All inquiries about programs offered should be directed to the Acadia Divinity College, from whom a separate Academic Calendar is available. Applicants are encouraged to apply for admission as early as possible during the academic year prior to their intended enrolment. International applicants are normally admitted no later than April 1st to begin studies in September and Canadian applicants are normally admitted by August 1st; however, notification of acceptance is generally much sooner.

Students preparing for ordained ministry are encouraged to be in contact with their denominational judicatories to know, prior to beginning their theological studies, what the standards for ordination are in their denominations and whether a license to minister is expected of them prior to beginning their studies. The various programs that lead to a Master of Divinity or a Bachelor of Theology (ordination track) normally meet the educational standards for ordination in all Canadian Baptist Ministries related churches. This is also true of the Canadian Baptists of Atlantic Canada (CBAC) that is affiliated with the Canadian Baptist Ministries.

After the applicants' files are complete, the Admissions Committee will review and act on their applications and may request an interview.

For further information, please contact Acadia Divinity College directly at the following:

Main Office: (902) 585-2210
Toll-Free: 1 (866) 875-8975
Registrar: (902) 608-7080
Student Services: (902) 585-2216
Email: adcstudentservices@acadiau.ca
Fax: (902) 585-2233

## Application for Residence

The Residence application is available to students who have accepted their offer of admission to Acadia by submitting their confirmation deposit. A link will be made available to all admitted students through their Acadia University Undergraduate Application Portal found at https://connect.acadiau.ca/apply/. When you apply for residence, you will be asked to secure your space on campus by submitting your non-refundable residence deposit. For further information, contact residencelife@acadiau.ca.

## Canadian Immigration Regulations

When you have received your official letter of acceptance to Acadia University and have received your Provincial Attestation Letter (if required), you should immediately begin procedures to obtain your study permit. Depending on your citizenship, a Temporary Resident Visa (TRV) or Electronic Travel Authorization (eTA) may also be required, and if required, it is provided with an approved study permit. The process of obtaining your required immigration documents will differ between visa offices abroad and, in some cases, can take several months to complete. All students must provide an official letter of acceptance and proof of sufficient funds to study in Canada. In some cases, a medical exam will be required. When your study permit application is approved, you will receive a "letter of introduction" which is also known as a port of entry letter to present to a Canadian immigration officer at the place where you first enter Canada (port of entry).

Under no circumstances should you leave for Canada until you have obtained your letter of introduction from Immigration, Refugees, and Citizenship Canada (IRCC).

It is important to remember the expiry date of your study permit. If your course of study requires you to remain in Canada past the expiry date, you must obtain an extension of your study permit before that date. Keep your study permit in a safe place and make a digital copy of your study permit.

If you have been studying at a High School in Canada on a study permit, be sure to apply to change your conditions and extend your stay in Canada before the expiry date of your existing study permit by applying for a study permit extension. You will need to submit a PAL with your application to extend your studies at the post-secondary level as you are switching to a new DLI.

If you are studying at another college or university in Canada, you do not need to change the conditions or term of your current study permit, unless your permit is due to expire before coming to Acadia. You will need to change your listed institution to Acadia University

on your MyCIC account. You will require a PAL to do this.

Only U.S. citizens, permanent residents of the U.S., a person who has lawfully been admitted to the U.S. for permanent residence, a resident of Greenland, or a resident of Saint-Pierre and Miquelon may apply for a study permit at the border when they enter Canada. You should check IRCC's website to make sure these regulations are current and applicable.

For the most up to date information about the study permit application and requirements, you can visit http://www.cic.gc.ca/.

# PART II: SCHOLARSHIPS & FINANCIAL AID

## Undergraduate

Acadia University is very fortunate that our generous donors help to support and reward our qualified incoming and returning students. More than $8 million is spent annually in the areas of scholarship, scholar-bursary, bursary, awards and prizes. Scholarships cover a wide scope of academic pursuits, musical and athletic talents as well as community service and research activities. The Acadia University Senate Scholarships, Prizes and Awards Committee (SPAC) decides policy and process in which recipients of the scholarships, prizes, bursaries and awards are to be selected.

### Entrance Scholarship and Scholar-Bursary

Eligibility:

- You are a high school, secondary level student, or transfer student.
- You have an average of at least 80% in the courses required for admission. We calculate your scholarship average by combining the results of your final Grade 11 and first semester Grade 12 courses that are required for admission. Your international curriculum grades will be scaled to Canadian standards.
- You are a transfer student with a minimum cumulative GPA of 3.50 or 80%. You must be in your first undergraduate degree program and have completed no more than two years or 60h.
- You complete the scholarship application through the Status Portal.

How to apply:

- Apply for admission and provide all the required admission documentation.
- If you're accepted to Acadia, we'll send you a letter of offer. If you are eligible for scholarships, your initial scholarship offer will be included in the letter.
- Complete the scholarship application by March 1st.
- We'll use your application and references (if applicable) to determine which scholarships you may be eligible to receive.
- Please note that Local and Specialized Scholarships require separate application forms.

### Definitions

**Scholarship**: Awarded to a student during the admission process, or during the academic term based on outstanding academic achievement, extra-curricular involvement and/or leadership qualities. A minimum average of 80% or GPA of 3.50 is required.

**Scholar-Bursary**: Awarded primarily based on both demonstrated financial need and academic achievement (80% or GPA of 3.50). Financial need is demonstrated by the student applying for student loans.

**Bursary**: Granted to a student with demonstrated financial need which is determined by the Scholarship and Financial Assistance Office. Applicants must also be maintaining satisfactory academic progress (GPA of 2.00) in their program of study. There is no minimum GPA requirement for donor funded bursaries. Financial need is demonstrated by the student applying for government student loans.

**Awards and Prizes**: Awarded based on a wide spectrum of donor determined criteria which may be limited to specific programs or activities.

### Policies and Process

#### Deferral of Scholarship

You may choose to take a gap year to work, volunteer, or travel. The Scholarship, Prize and Awards Committee of Senate allows you to defer your scholarship for up to one full academic year if you do not participate in any other post-secondary education. To defer a scholarship, send an email to the Scholarships and Financial Aid office at financial.aid@acadiau.ca with this request and the reason you are deferring. If you choose to defer, you must notify the Admissions Office once you decide to attend or return to full-time study.

#### Scholarships for Returning Students

We will email all current students the application for awards, scholarships, and bursaries in the fall. There is one deadline for awards to be given out before December 31 and another deadline for awards to be given out by March 31. Please refer to the emails for more information.

A few awards require a separate application. We will email eligible students about these as they become available. You should check with your department/school to see whether a separate application is required for any departmental awards.

#### Disbursement of Funds

Scholarship funds will be credited to your university account in two equal installments, September, and January. You can request a refund from the Office of Student Accounts if you have a credit on your account. This can be done through the Hub by choosing Student Account Refund under Student Account Services. Renewable scholarships are available for up to four years or until a student graduates with their first undergraduate degree, whichever comes first.

**Withdrawing from University**
If you withdraw or cease to be a full-time student at Acadia, recipients will have their award amount(s) adjusted per term according to the "academic and student fee" withdrawal policy up to the amount due payable to cover mandatory academic and student fee as well as any applicable on campus residence and meal costs.

**Conditions of Renewability**
If you have received a renewable entrance scholarship/award you must register each academic year at Acadia (September to April) in a full course load of 24h. If registered for less than 24 hours students must receive permission from their Dean to carry a reduced course load. Students registered with Accessible Learning Services may be eligible as full-time students taking a reduced course load. For more information on this and other accommodations, please contact Accessible Learning Services at accessible.learning@acadiau.ca. Students must meet academic criteria to have the scholarship/award renewed annually. Acadia Renewable Entrance Scholarship and/or Renewable Scholar-Bursary, Chancellor's, Board of Governors', President's and IB Scholarship recipients must maintain sessional GPA of 3.50 in year one and a sessional GPA of 3.67 in year two and subsequent years. Many other renewable awards may have different renewability criteria; Please refer to the Scholarship and Awards website for the academic criteria.

**Appeal Process**
In cases where the recipient of a renewable entrance scholarship fails to meet the conditions for renewability, they will be notified in the early summer. An appeal in writing to the Scholarships, Prizes and Awards Committee will be required. In considering your appeal, the Scholarships, Prizes, and Awards Committee will review your academic record and consider medical or other substantive reasons which you may submit.

**Scholarship Students on Co-op**
While a student is on a fall and/or winter term Co-op work term, they can hold their Acadia University awards. For renewable awards, the Scholarships & Financial Assistance Office will work with the Co-op Office to determine eligibility for renewal taking into consideration the grade for the Co-op work term. Renewable awards are only available for up to four years or until the student graduates, whichever comes first, as per the University awards terms and conditions.

**Scholarship Students on Study Abroad**
If a student is on direct exchange, with fees payable to Acadia, in-course and renewable entrance scholarship funds are credited to their university student account at Acadia, half in September and half in January. When the transcript is received from the University abroad, it is assessed and determined if the student has met the academic requirement to renew the scholarship.

## Financial Assistance

**Bursary**
The University has a limited amount of money available each academic year to be awarded to students with unmet financial need in the form of bursaries. The money has been provided by individuals and organizations specifically to provide financial assistance to students with unmet financial need who are performing satisfactorily in an academic program as full-time undergraduates. Applications will not be considered unless the applicant is registered as a full-time undergraduate student. In addition, Canadian and US applicants must have a student loan. International students are also eligible. Application details are emailed to students in the fall and winter of each year.

**University Interim Loans**
Students sometimes find themselves unable to afford textbooks or rent at the beginning of the academic year while they are awaiting provincial loan funds. Students may submit information pertaining to their expected loan (a copy of their loan assessment) along with a request for funds and a summary of what funds are required to the Scholarships and Financial Aid Office for consideration. Loans are not available to pay a student's university account.

**Provincial and United States Direct Loan Programs**
Acadia's Scholarships and Financial Aid Office can act as a liaison between students and the various provincial loan offices. Acadia University also participates in the William D. Ford Federal Direct Loan (Direct Loan) Program for U.S. students.

## Graduate

(For MSc, MA and MCD programs – excludes the MSc in GEOM, and MSc in ENVS programs) Applicants to an MEd program must refer to the FAQ document on the SOE website for funding info: https://med.acadiau.ca/faq.html.

A graduate student may be provided with financial support from a combination of several different sources, and these may entail different expectations. While Acadia strives to support as many students as possible, funds are limited. There is no guarantee of graduate student funding.

**Acadia Graduate Scholarship (AGS)**
An AGS is a scholarship and does not require students to do extra work that is unrelated to the thesis project, but awardees must maintain a satisfactory academic record, which is a grade of at least B in all courses taken at the University as part of the master's program. Students will receive a T4A for their earnings. An Acadia Graduate Scholarship (AGS) can only be held in combination with an Acadia Graduate Teaching Assistantship (AGTA; min 30% of total).

**Acadia Graduate Teaching Assistantship (AGTA)**
An AGTA is payment in return for assistance in the delivery of undergraduate programs. Students receiving an AGTA will be expected to work up to 12 hours a week or a maximum of 144 hours per semester, for which they will be paid a minimum of $18.09/hour (includes 4% vacation pay). Mandatory employer-related costs (MERC) will be covered and includes 8.5% for required Workers Compensation, Employment Insurance, and CPP. The salary component is subject to tax and students will receive a T4 slip for their employment earnings and annual tax return. The AGTA must comprise at least 30% of the total funding package (AGS + AGTA). In some cases, it may comprise 100%.

The specific duties for AGTAs will vary among departments/schools. Students are not permitted to teach regularly scheduled university courses (this does not include labs). The occasional lecture may be given; however, this will be under the supervision of the faculty member responsible for the course.

**Recipients of an AGS and/or AGTA must have full-time student status.**
University awards and scholarships are subject to review by the student's department and Graduate Studies if the student is successful in obtaining external funding. Please note that AGS/AGTA funding may be available to students receiving external funding provided the combined funding (e.g. external scholarship plus AGS/AGTA does not exceed $15,000. An exception can be made for Tri-Council scholarship recipients pending availability of funding.

Applicants to the above noted programs who apply and submit a complete admission application package by February 1st with a GPA of at least 3.00 in each of the last 2 years of undergraduate study, will be automatically considered for an Acadia Graduate Scholarship (AGS).

Applicants to the above noted programs who apply and submit a complete admission application package by February 1st will be automatically considered for an Acadia Graduate Teaching Assistantship (AGTA). There is no GPA requirement required for an AGTA.

The only program with a different admission deadline for consideration of AGS/AGTA funding is the MSc in Psychology program which has a deadline of December 15th.

**Discipline-specific university awards (DSUA)**
Small DSUAs may be available for various disciplines and units across the university, sometimes as a graduate student scholarship. Consult with your supervisor or graduate coordinator on the availability of such funding.

**Research Assistantship (RA)**
This is payment from research funds received by a faculty member in support of your thesis project or other work of interest to your supervisor's research program. Expectations will vary. Tasks may include (but are not limited to) written reviews or reports, carrying out experiments or interviews, developing software, etc. These funds are subject to tax and mandatory employment deductions. Students will receive a T4 slip for their earnings.

**Harry Elmore Felch Fellowships in Science**
The Harry Elmore Felch Fellowship, provided from the estate of Mr. Harry Elmore Felch, is awarded to a student in the Master of Science program. An annual award will normally be made to an incoming student who has attained a high academic standing in their undergraduate program. Preference will be given to residents of Kings County, Nova Scotia.

**Canada Graduate Scholarships – Master's program (CGS M)**
The CGS M program provides financial support to high caliber scholars who are engaged in eligible master's or, in some cases, doctoral programs in Canada. This support allows these scholars to fully concentrate on their studies in their chosen fields. The CGS M program supports 2,500 students annually in all disciplines and is administered jointly by Canada's three federal granting agencies: The Canadian Institutes for Health Research (CIHR), the Natural Sciences and Engineering Research Council of Canada (NSERC), and the Social Sciences and Humanities Research Council of Canada (SSHRC). The selection process and post-award administration are carried out at the university level, under the guidance of the three agencies. Students submit their application to the university at which they propose to hold their award via the Research Portal.

Qualifying Canadian universities receive a CGS M allocation indicating the number of students to whom they can award scholarships; these allocations are divided by broad fields of study: health, natural sciences and/or engineering and social sciences and/or humanities.

To be eligible to apply, an applicant must have achieved a first-class average in EACH of the last 2 completed years of study. If your last 2 completed years of study were at Acadia University, first-class average is defined as a GPA of 3.67/4.33. If your studies were elsewhere, please contact the Graduate Studies Office at that University for their definition of first-class average. **Applicants MUST upload up-to-date OFFICIAL transcripts for this competition**.

**IMPORTANT NOTE**: Applicants MUST also apply to graduate studies at the Universities they propose to hold the award. Acadia's admission application deadline is February 1st for consideration (except for December 15th for MSc in Psychology applicants and December 4th for MEd in Counselling applicants).

**Commonwealth Scholarship and Fellowship Plan**
These awards are available for Commonwealth students to study in Canada or Canadian students to study in other Commonwealth countries. The fellowships are awarded to graduates of recognized universities for a period of two academic years and the intervening summer, and are intended to cover the holder's traveling, living and student expenses during the period of tenure.

Application forms and details for students wishing to study in Canada, may be obtained through the Canadian High Commissioner in their country. Persons intending to apply are advised to inquire not later than the beginning of October approximately one year prior to the date of tenure.

# PART III: FEES

The Student Accounts Office (University Hall, 1st Floor) serves as the collection point for all university fees and charges. This office cannot make adjustments to any fees without the permission of the appropriate department.

## Payment of Fees

All fee calculations are made at registration without prejudice and are subject to confirmation and adjustment at a later date. In addition to the handling charge for any cheque returned, the return may result in cancellation of enrolment. Applications for Canada Student Loans (CSL) must be made two to three months prior to registration and through the Student Aid Office of the Department of Education in the province of permanent residence.

Students financing their education through scholarships or through external sponsors must present proof of this at registration or, failing this, must make prior arrangements to enable payment of amounts required at registration. Late arrangements for payment will result in interest being charged. Enrolment may be cancelled for non-payment of fees. Fees for each term are due and payable prior to or at registration.

### Full-Time Students (9 or more credit hours in a term)

1) A full-time student registered for the full Fall/Winter academic year may pay fees in two installments as follows:

- Tuition – 50% due upon registration and 50% on the first day of classes in January.
- Student Organization Fees – 50% due upon registration and 50% on the first day of classes in January.
- Room Fees – 50% due on the first day of classes in September and 50% on the first day of classes in January.
- Meal Plan Fees – 50% due on the first day of class in September and 50% due on the first day of classes in January.
- Other Fees (including ASU Extended Health Plan) – 100% is due upon registration.

2) A full-time student registered for the Fall or the Winter term only is required to pay fees as follows:

- Tuition – 100% due upon registration.
- Student Organization Fees – 100% due upon registration.
- Room Fees – These fees are levied based on the appropriate portion of the Full year fees and 100% is due upon registration.
- Meal Plan Fees – These fees are levied based on the appropriate portion of the Full year fees and 100% is due upon registration.
- Other fees (including ASU Extended Health Plan) – 100% is due upon registration.

### Part-Time Students

All fees are due and payable, in full, at registration.

### Technology Fee

The Acadia University Technology Fee is charged each year to all students registered in a full-course load. This fee is built into the Graduate tuition amounts and Undergraduate per course amounts.

### Athletic & Health Services Fee

The Acadia University Athletic & Health Services Fee is charged each year to all students registered in a full-course load.

**Fees 2025-2026 – Undergraduate**

| **NOVA SCOTIA RESIDENTS** | | | | | | |
|---|---|---|---|---|---|---|
| | **Per Course Undergraduate (Per Term)** | | | **Full Course Load Undergraduate (Per Term)** | | |
| | 3 credit hours | 6 credit hours | 9 credit hours | 12 credit hours | 15 credit hours | 18 credit hours |
| Tuition | $1,244.11 | $2,488.22 | $3,732.33 | $4,485.92 | $4,485.92 | $4,485.92 |
| Technology Fee | | | | $313.75 | $313.75 | $313.75 |
| Athletic/Health Services Fee | | | | $143.50 | $143.50 | $143.50 |
| | **Per Course BEd (Per Term)** | | | **Full Course Load BEd (Per Term)** | | |
| Tuition | $1,288.48 | $2576.96 | $3,865.44 | $4,686.60 | $4,686.60 | $4,686.60 |
| Technology Fee | | | | $313.75 | $313.75 | $313.75 |
| Athletic/Health Services Fee | | | | $143.50 | $143.50 | $143.50 |

*Tuition is less NS University Student Bursary

*Registration above 18 credit hours in a term will be subject to an overload charge at the 3 credit hour rate.

| CANADIAN RESIDENTS | | | | | | |
|---|---|---|---|---|---|---|
| | Per Course Undergraduate (Per Term) | | | Full Course Load Undergraduate (Per Term) | | |
| | 3 credit hours | 6 credit hours | 9 credit hours | 12 credit hours | 15 credit hours | 18 credit hours |
| Tuition | $1,427.43 | $2,854.86 | $4,282.29 | $5,333.03 | $5,333.03 | $5,333.03 |
| Technology Fee | | | | $313.75 | $313.75 | $313.75 |
| Athletic/Health Services Fee | | | | $143.50 | $143.50 | $143.50 |
| | Per Course BEd (Per Term) | | | Full Course Load BEd (Per Term) | | |
| Tuition | $1,476.50 | $2,953.20 | $4,429.80 | $5,541.76 | $5,541.76 | $5,541.76 |
| Technology Fee | | | | $313.75 | $313.75 | $313.75 |
| Athletic/Health Services Fee | | | | $143.50 | $143.50 | $143.50 |

* Registration above 18 credit hours in a term will be subject to an overload charge at the 3 credit hour rate.

| INTERNATIONAL STUDENTS | | | | | | |
|---|---|---|---|---|---|---|
| | Per Course Undergraduate (Per Term) | | | Full Course Load Undergraduate (Per Term) | | |
| | 3 credit hours | 6 credit hours | 9 credit hours | 12 credit hours | 15 credit hours | 18 credit hours |
| Tuition | $3,079.86 | $6,159.72 | $9,239.58 | $11,986.96 | $11,986.96 | $11,986.96 |
| Technology Fee | | | | $313.75 | $313.75 | $313.75 |
| Athletic/Health Services Fee | | | | $143.50 | $143.50 | $143.50 |
| | Per Course BEd (Per Term) | | | Full Course Load BEd (Per Term) | | |
| Tuition | $3,179.43 | $6,358.86 | $9,538.29 | $12,471.64 | $12,471.64 | $12,471.64 |
| Technology Fee | | | | $313.75 | $313.75 | $313.75 |
| Athletic/Health Services Fee | | | | $143.50 | $143.50 | $143.50 |

* Registration above 18 credit hours in a term will be subject to an overload charge at the 3 credit hour rate.

### Other Per Course Fees

| | Nova Scotia Residents | Canadian Residents | International Students |
|---|---|---|---|
| Online Course (per 3 credit hour) | $1,244.11 | $1,427.43 | $3,079.86 |
| On-campus course (per 3 credit hour) | $1,244.11 | $1,427.43 | $3,079.86 |
| Off-site and Lab course (per 3 credit hour) | $1,244.11 | $1,427.43 | $3,079.86 |
| Overload (non-BEd) (per 3 credit hour) | $1,244.11 | $1,427.43 | $3,079.86 |
| Overload (BEd) (per 3 credit hour) | $1,288.48 | $1,476.50 | $3,179.43 |
| Zero credit hour UG courses* | $1,244.11 | $1,427.43 | $3,079.86 |
| Seniors | $971.68 | $1,144.07 | --- |
| Axcess Acadia | $665.00 | $692.16 | --- |
| Co-op | $946.20 | $1,073.11 | $2,385.72 |
| Co-op Internship | $1,921.39 | $2,131.88 | $5,050.11 |
| HC-NUTR Dietetics Practicum 1 (NUTR 4033) | $1,244.11 | $1,427.43 | $3,079.86 |
| HC-NUTR Dietetics Practicum 2 (NUTR 4043) | $1,244.11 | $1,427.43 | $3,079.86 |
| Continuing honours program, per semester | $325.60 | $472.10 | $1,091.11 |
| Pre-University | $540.00 | $556.20 | $1,134.00 |

*Students registered in less than 9 credit hours in a term and registered in a zero credit hour course will be charged the equivalent of a 3 credit hour course.
*Tuition is less NS University Student Bursary

**Please see *Student Organization Fees* section for additional undergraduate fees.**

### Non-Credit Courses

If a student is registered in less than 9 credit hours (9h) and is therefore considered part-time, the student will pay a per course fee for any non-credit course for which they are registered. The price for a non-credit course would be the same as that of a credit course. Students registered in this manner will pay the differential fee in the same manner as other part-time students. Please note, this policy does not apply to the online pre-university courses.

## Fees 2025-2026 – Graduate

**Full-time and Continuing Fees for Graduate Students**

Tuition for all graduate students (except MEd and MAK- Coaching Stream) is based on either a 1-yr or 2-yr program fee requirement. In the unusual situation where a student completes their graduate program early, tuition for the full program will still apply. Students who do not complete within the program period will be charged a continuing fee for each additional semester that they are registered.

| NOVA SCOTIA RESIDENTS | |
|---|---|
| Full-time graduate enrolled in the Master of Arts program and Master of Science in GEOM program (1yr programs) | $8,912.92 |
| Full-time graduate enrolled in the Master of Science, Master of Community Development, MAK-Research, MAK-Exercise or Master of Arts in SOPT program (2yr programs) (fee is for current year only) | $5,862.10 |
| MEd, MAK- Coaching Stream, per 3 credit hour course (*) | $1,172.20 |
| Continuing graduate fee per semester | $325.60 |
| Co-op work term, fee per 4-month course | $946.20 |
| Co-op work term, fee per 12 to 16-month course | $1,921.39 |
| PhD in Educational Studies | $12,870.00 |
| PhD Ancillary Fee | $395.00 |
| PhD Continuance Fee | $3,677.00 |

* Tuition is less NS University Student Bursary

| CANADIAN RESIDENTS | |
|---|---|
| Full-time graduate enrolled in the Master of Arts program and Master of Science in GEOM program (1yr programs) | $10,604.58 |
| Full-time graduate enrolled in the Master of Science, Master of Community Development or Master of Arts in SOPT program (2yr programs) (fee is for current year only) | $7,431.60 |
| MEd, MAK- Coaching Stream, per 3 credit hour course | $1,352.64 |
| Continuing graduate fee per semester | $472.10 |
| Co-op work term, fee per 4-month course | $1,073.11 |
| Co-op work term, fee per 12 to 16-month course | $2,131.88 |
| PhD in Educational Studies | $12,870.00 |
| PhD Ancillary Fee | $395.00 |
| PhD Continuance Fee | $3,677.00 |

| INTERNATIONAL STUDENTS | |
|---|---|
| Full-time graduate enrolled in the Master of Arts program and Master of Science in GEOM program | $24,233.10 |
| Full-time graduate enrolled in the Master of Science, Master of Community Development or Master of Arts in SOPT program (2yr programs) (fee is for current year only) | $16,881.98 |
| MEd, MAK- Coaching Stream, per 3h course | $3,129.66 |
| Continuing graduate fee per semester | $1,091.11 |
| Co-op work term, fee per 4-month course | $2,385.72 |
| Co-op work term, fee per 12 to 16-month course | $5,050.11 |
| PhD in Educational Studies | $25,740.00 |
| PhD Ancillary Fee | $395.00 |
| PhD Continuance Fee | $7,354.00 |

### Leave of Absence Fees for Graduate Students

| | |
|---|---|
| Maternity/Paternal Leave * | $100.00 |
| Illness Leave * | $100.00 |
| Compassionate Leave * | $100.00 |
| Employment Leave (International Students) | $2665.50 |
| Employment Leave (Canadian Students) | $1296.00 |

*Those students on Maternity/Parental, Illness or Compassionate Leaves are ONLY required to pay the above-mentioned fee should they choose to maintain computer network, email and library access during the period of the leave.

**Please see *Student Organization Fees* section for additional fees.**

| Other Fees (All Students) | |
|---|---|
| Campus Card System Access Fee | $10.00 |
| CODE/KINE Program Fee | $100.00 |
| ESST Program Fee | $100.00 |
| Late Graduation Fee | $25.00 |
| Late Payment Fee | $50.00 |
| Late Registration Fee | $25.00 |
| N.S.F. or other returned cheques handling charge | $35.00 |
| Online Course Extension Fee (per 2-month extension) | $150.00 |
| Payment Extension Fee | $25.00 |
| PLAR Assessment Fee | $713.72 |
| Reinstatement Fee | $50.00 |
| Replacement Diploma* | $50.00 |
| Transcript Fee* | $15.00 |
| Verification of Enrolment Fee | $15.00 |
| T2202 Reprint Fee | $15.00 |

*Additional courier fee may apply.

**Supplementary Music Fees for Majors**

| | |
|---|---|
| Concert Credit | $100.00/year |
| Ensemble Fee | $25.00/term |
| MUSI 3003 | $25.00 |
| Applied Lessons | $1000.00/3h if not a program requirement |

**Supplementary Music Fees for Non-Majors**

| | |
|---|---|
| MUSI 1713, MUSI 1733 | $200.00/3h |
| Applied Lessons | $1000.00/3h |
| Ensemble Fee | $25.00/term |
| MUSI 3003 | $25.00 |

| Student Organization Fees | | |
|---|---|---|
| **UNDERGRADUATE** | Fall-Winter term | Either Fall or Winter term |
| Students' Union Fee | $226.00 | $113.00 |
| ASU Wellness Fee | $30.00 | $15.00 |
| Building Fund Fee | $30.00 | $15.00 |
| Class Dues, undergraduate | $3.00 | $1.50 |
| Limited Interest Fee | $3.00 | $1.50 |
| Renovation & Accessibility Fee | $50.00 | $25.00 |
| WUSC Fee | $2.00 | $1.00 |
| Total | $10.00 | $5.00 |
| **GRADUATE** | Fall-Winter term | Either Fall or Winter term |
| Students' Union Fee | $226.00 | $113.00 |
| ASU Wellness Fee | $30.00 | $15.00 |
| Building Fund Fee | $30.00 | $15.00 |
| Graduate Student Association Fee | $1.00 | $0.50 |
| Limited Interest Fee | $3.00 | $1.50 |
| Renovation & Accessibility Fee | $50.00 | $25.00 |
| WUSC Fee | $2.00 | $1.00 |
| Total | $10.00 | $5.00 |

**General Per-course Studies Fee (Undergraduate & Graduate) – All terms**
$10.62/3 credit hours course

**Co-op Students General fee applicable in all work terms**
$10.62/per work term

## Acadia Students' Union Health, Dental and Medical Plan Coverage for Students

**For full details of the benefit plans provided by Acadia Students' Union please visit StudentVIP.ca/asu**

### Acadia Students' Union Health Plan

ASUsupports.ca

Students who have a provincial health card receive coverage for extended health care services including, but not limited to, prescription drug coverage, counselling, eye exams, eyewear, medical equipment & supplies, orthotics, paramedical such as massage therapy, physiotherapy, travel coverage and more.

| | | | |
|---|---|---|---|
| Health Plan Fee (for the policy period ending August 31) | Single Person: | $236.00 | Family $543.00 |

### Acadia Students' Union International Medical Plan

ASUsupports.ca

International students who do not have a provincial health card receive comprehensive coverage for emergency medical care and extended health care including, but not limited to, doctors' visits, x-rays, lab tests, maternity, prescription medication, vision care, counselling and more.

| | | | |
|---|---|---|---|
| International Medical Plan Fee (for the policy period ending August 31) | Single Person: | $1,215.60 | Family $2,737.28 |

### Acadia Students' Union Dental Plan (Canadian & International Students)

ASUsupports.ca

Students receive comprehensive coverage for dental services including, but not limited to, examinations, x-rays, cleanings, fillings, anesthesia, oral surgery and more.

| | | | |
|---|---|---|---|
| Dental Plan Fee (for the policy period ending August 31) | Single Person: | $165.00 | Family $350.00 |

### Opting Out of Acadia Students' Union Health, Dental and Medical Benefits

Students who have comparable coverage have the option to opt out of the ASU benefits. Students must submit an online opt-out application at ASUsupports.ca and upload proof of comparable health/dental/medical coverage.

#### Opting-In/Out Deadlines

Students looking to opt-in or out must adhere to the below opt-in/out periods for the term in which they start their studies. Students are only able to opt-out during the term on which the fees are posted to their student account.

- Fall Term- August 16 to September 30
- Winter Term- December 16 to January 31
- Spring Term- April 16 to May 31

## Late Payments

Students are expected to pay first-term tuition by **September 3, 2025.** Any student account not paid by the required payment dates will incur a $50.00 late payment charge and may lose on-campus network access. Interest will be charged monthly at a rate of 1% per month on any outstanding balance as of the last working Thursday of the month following registration until such time as the account is paid in full.

Where a student has elected to pay fees in two installments, no interest will be charged on the second installment until the last working Thursday of the month following the first day of classes in January of that academic year.

Students who have outstanding accounts are:

- not permitted to register again.
- not permitted to receive or have sent an official transcript of their record.
- not recommended for any degree or diploma, until the debt has been paid.
- not permitted to access grade information.

## Residence Fees

#### Residence and Room Damage

Damage to university property is charged to the student responsible.

#### Residence Room Occupancy

Rooms will not be held beyond the first day of classes unless the Residence Life Office is notified, in writing, of late arrival. The occupancy period is the published date for opening of the residences in each term and 24 hours after the student's last examination in each term.

For graduating students and students who require accommodation for academic reasons, rooms will be available at a daily rate, in a designated residence, from the published date that residences close at the end of the academic year, until after convocation. All food costs are at the student's expense. Rooms will be available at a daily rate, in a designated residence, for students required for academic reasons, to remain on campus after residences close at the end of each term. All food costs are at the student's expense.

When applying for residence accommodation outside the normal occupancy period, the student agrees with all arrangements set by Residence Life regarding residence occupancy and the daily rate associated with the said room occupancy.

**Residences**

| | Single Room | Deluxe Single | Single In-Suite | Premium Single | Private Suite | Double Room | Deluxe Double |
|---|---|---|---|---|---|---|---|
| **Chase Court** | $8,720.00 | $9,790.00 | $10,240.00 | n/a | n/a | n/a | n/a |
| **Chipman House** | $8,720.00 | $9,790.00 | n/a | n/a | n/a | $7,470.00 | n/a |
| **Christofor Hall** | $8,715.00 | $9,790.00 | n/a | n/a | n/a | $7,470.00 | n/a |
| **Crowell Tower** | $7,245.00 | $8,210.00 | n/a | n/a | n/a | $6,260.00 | n/a |
| **55 University Ave** | $8,335.00 | $9,320.00 | n/a | $10,370.00 | n/a | $7,120.00 | n/a |
| **Dennis House** | $8,715.00 | $9,790.00 | $10,235.00 | n/a | n/a | $7,470.00 | n/a |
| **Eaton House** | $8,715.00 | $9,790.00 | n/a | n/a | $11,635.00 | $7,470.00 | n/a |
| **Roy Jodrey Hall** | $9,790.00 | n/a | $10,240.00 | n/a | n/a | n/a | n/a |
| **Seminary House** | $8,335.00 | $9,320.00 | n/a | n/a | n/a | $7,120.00 | n/a |
| **War Memorial House** | $8,335.00 | $9,320.00 | $9,225.00 | $10,370.00 | n/a | $7,120.00 | $7,405.00 |
| **Whitman House** | $8,715.00 | $9,790.00 | $10,240.00 | n/a | n/a | $7,470.00 | n/a |

Residence campus program fee - $50.00
Residence accommodation may only be booked to coincide with the academic terms in which a student is registered.

**Student Meal Plans**
Meal plans are compulsory for all students living in residence Off-campus students may opt to participate in a meal plan.

**Unlimited Dining**

| | |
|---|---|
| 5 Day Plan | $5,994.00 |
| 7 Day Plan | $6,151.00 |
| 7 Day Plus Plan (includes $325.00 in Flex Cash*) | $6,466.00 |
| 7 Day Max Plan (includes $650.00 in Flex Cash*) | $6,707.00 |

**Commuter Plans – Off-campus students – non-refundable (taxes included) ****

| | |
|---|---|
| Try Me Pack – 5 meals | $86.53 |
| Budget Pack – 10 meals plus $25.00 Flex Cash | $201.45 |
| Monthly Meal Pack – 35 meals plus $100.00 Flex Cash | $686.44 |
| Commuter Pack – 60 meals plus $175.00 swipe Flex Cash | $1,081.91 |
| Value Pack – 80 meals plus $250.00 Flex Cash | $1,372.27 |
| Ultimate Pack – 190 meals plus $100.00 Flex Cash | $2,484.34 |

*Flex Cash is neither refundable or transferable and is for use at Acadia Dining Services outlets on campus only.
** Commuter meal plans are non-refundable except when a student is withdrawing from Acadia. A $40.00 administrative fee will be applied to any refunds of this nature.

## Withdrawal and Cancellation

### Undergraduate

Students who wish to withdraw must notify the Registrar's Office in writing. Students ceasing their studies without written notification are not eligible for adjustments to their fees. No financial records will be adjusted due to reassessment of withdrawal date after six-months from the last day of exams each academic term.

**Academic, Student, Residence and Meal Plan Withdrawal/Cancellation Fees**
Students withdrawing from university during the academic year (September to April) will be charged as follows (does not apply to ASU Medical and Dental fees):

| | DATE | ACADEMIC & STUDENT FEES | RESIDENCE | MEAL PLAN |
|---|---|---|---|---|
| FALL | Aug 26/25 - Sept 12/25 | | 90% refund of fall term room cost. Students will also be charged a cancellation fee of $200.00 | 90% refund of fall term meal plan cost |
| | Sept 3/25 - Sept 12/25 | 100% refund | 90% refund of fall term room cost. Students will also be charged a cancellation fee of $200.00 | 90% refund of fall term meal plan cost |
| | Sept 13/25 - Sept 19/25 | 80% refund | 80% refund of fall term room cost | 80% refund of fall term meal plan cost |

| | | | | |
|---|---|---|---|---|
| | Sept 20/25 - Sept 26/25 | 60% refund | 60% refund of fall term room cost | 60% refund of fall term meal plan cost |
| | Sept 27/25 - Oct 3/25 | 40% refund | 40% refund of fall term room cost | 40% refund of fall term meal plan cost |
| | Oct 4/25 - Oct 10/25 | 20% refund | 20% refund of fall term room cost | 20% refund of fall term meal plan cost |
| | Oct 11/25 - Jan 11/26 | 0% refund | 0% refund of fall term room cost and 80% refund of winter term room cost | 0% refund of fall term meal plan cost and 100% refund of winter term meal plan cost |
| WINTER | Jan 12/26 - Jan 21/26 | 100% refund | 80% refund of winter term room cost | 80% refund of winter term meal plan cost |
| | Jan 22/26 - Jan 28/26 | 80% refund | 80% refund of winter term room cost | 80% refund of winter term meal plan cost |
| | Jan 29/26 – Feb 4/26 | 60% refund | 60% refund of winter term room cost | 60% refund of winter term meal plan cost |
| | Feb 5/26 - Feb 11/26 | 40% refund | 40% refund of winter term room cost | 40% refund of winter term meal plan cost |
| | Feb 12/26 - Feb 18/26 | 20% refund | 20% refund of winter term room cost | 20% refund of winter term meal plan cost |
| | Feb 19/26 - Apr 23/26 | 0% refund | 0% refund | 0% refund |

**Residence Cancellation Fees**
New student canceling room reservation (deposit not returned) $200.00
Returning student canceling room reservation:

- Cancellations received between January 1 and February 28 are subject to a $150.00 fee.
- Cancellations received between March 1 and September 1, 2025 are subject to a $300.00 fee.

**Scholarships**
Acadia University award (includes scholarship and bursary) recipients will have their award amount(s) adjusted per term according to the "Academic and Student Fee" withdrawal policy up to the amount due payable to cover mandatory academic and student fees as well as any applicable on campus residence and meal costs.

**Axe Cash and Lumber Yard Accounts**
The Axe Cash and the Lumber Yard accounts are designed to safeguard money for school and personal expenses. These funds can be used to purchase meals, snacks, books, printing, and supplies, with more services on the way. A minimum of $20.00 can be added to the account at any time. Any unused balance is carried over to the next academic year unless a formal request for refund is made to the Student Accounts office. Graduating students with balances over $5.00 will have any unused balance applied to their student account prior to convocation each year. Please visit https://www2.acadiau.ca/student-services/student-accounts/acadia-campus-card.html for more information.

**ASU Health and Dental Plan**
Should a student withdraw, health and dental plan fees will not be adjusted after the established deadline to opt out. Health and Dental benefits will terminate when the student withdraws (Canadian students must be registered full-time to be eligible).

**Summer Courses**
Beginning on the date of the Add/Withdrawal deadline, students will be charged 10% of the registration fee per lecture-day, for 3 credit hour courses. A lecture-day is based on 3 scheduled hours of classes.

**Online Courses**
Students withdrawing from an online, open-entry course must inform Acadia in writing, or through the Withdrawal Form found at hub.acadiau.ca. Refunds are only available when withdrawals are requested within the first 30 days. The following policies for refunds apply:

- If the withdrawal request is within 10 days (and no course work has been submitted), there will be a full refund less a $100 fee. If coursework has been submitted, there will be a full refund, less a $308.50 fee.
- If the withdrawal request is received between 11 and 30 days, there will be a full refund less a $308.50 fee (for a 6h course, the fee is $617).
- There are no refunds after 30 days.
- Refunds are made according to the original payment method.

Please note: If you do not complete the course, and do not officially withdraw, you will receive an 'F' (Fail).

## Graduate (Full- and Part-time)

**Course Changes and Withdrawals**
It is the student's responsibility to initiate course changes. Discontinuing attendance in classes, notifying an instructor or stopping payment does not constitute official withdrawal from a course. Graduate students who wish to withdraw from a course, add a course, or substitute one course for another, must do so through Colleague Student Self-Service, or by contacting the Graduate Studies Officer. Specific dates and deadlines for course changes and withdrawals are outlined in the Calendar Dates section at the front of this calendar.

**Program Withdrawal**
Graduate students who wish to withdraw from their program must, in writing, inform their supervisor, Head/Director and Graduate Coordinator in their department/school, and the Graduate Studies Officer.

**Refunds**
Refunds and course withdrawal penalties are calculated as of this day based on the “Academic and Student Fees” section.

**Graduate Awards**
Payment of Graduate Awards, including Acadia Graduate Scholarships and Acadia Graduate Teaching Assistantships, and funds from external grants/scholarships, will cease immediately upon termination of enrolment in any graduate program.

## Income Tax Documents

The Tuition and Education Credit Certificate (Income Tax form T2202A), is available for download by the student through their Colleague Self-Service account. The Statement of Pension, Retirement, Annuity, and Other Income (Income Tax form T4A) is mailed to the student’s permanent address on file unless a student has granted permission to receive the document electronically. These documents are released to students by February 28th of each year.

# PART IV: RECORDS AND REGISTRATION

## Student Academic Records

Students' academic records, including their official University files, are maintained by the Registrar's Office and are the property of the University. Access to records and release of information from them is governed by University policies and the laws of the Province of Nova Scotia (Freedom of Information and Protection of Privacy Act, S.N.S. 1993, Ch. 5) and the Country of Canada (Personal Information Protection and Electronic Documents Act).

In addition to the internal policies, procedures, and practices of the University and the requirements of the provincial FOIPOP legislation and the national PIPEDA legislation, as a public institution, the University is mandated to collect and report annually to Statistics Canada through the Maritime Provinces Higher Education Commission (MPHEC). The types of information included in this P.S.I.S. project, the uses to which that data is put, and the opting-out mechanism for those students who do not wish this material about them to be used in any fashion are available on request from Statistics' Canada's website (www.statscan.ca) or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa ON K1A 0T6.

International students also should be aware that Acadia University is required to report on international student enrolment status to Citizenship and Immigration Canada. For more information, please visit their website at: www.cic.gc.ca.

### Information Contained in Student Records

The following information is included in the student record:

a. Personal information (name, address, phone number(s), date of birth, citizenship, etc.). Each student is required to provide their complete legal name. Any requests to change a name must be accompanied by appropriate supporting documentation.
b. Basis of admission (application, record of previous studies, letters of recommendation, test results, etc.).
c. Enrolment information (program(s) of study, dates of attendance, courses attempted/completed).
d. Performance information (distinctions, sanctions, degrees obtained, etc.).
e. Results of appeals and petitions filed by the student.
f. Medical information relevant to the student's academic performance, provided by the student or with their consent.

### Release of Information About Students

**1. Disclosure to Students of Their Own Records**

a. Students have the right to inspect their academic record, except for information that is evaluative, or opinion material compiled solely for the purpose of admission to an academic program, and to challenge contents, which they believe to be inaccurate. An employee of the Registrar's Office will be present during such an inspection.
b. Students will, on submission of a signed request and payment of the current fee, have the right to receive transcripts of their own academic record. These transcripts will be marked "Issued to Student." Such right will not apply to students in debt to the University, but they will still have the right to inspect and review their records.
c. No partial transcripts of records will be issued.

**2. Disclosure to Faculty, Administrative Officers, and Committees of the University**

Information on students may be disclosed without the consent of the student to university officials or committees deemed to have a legitimate educational interest.

**3. Disclosure to Third Parties**

a. The following information is considered public information and may be released without restriction, unless the student has requested that it be kept confidential: name; period of registration; program of studies; certificates, diplomas, degrees awarded.
b. Voting lists will be supplied to the ASU in order to conduct elections.
c. Information will be released without student consent to persons in compliance with a judicial order or subpoena or as required by federal or provincial legislation.
d. Necessary information may be released without student consent in an emergency if the knowledge of that information is required to protect the health or safety of the student or other persons. Such requests should be directed to the Registrar.
e. Other than in the above situations, information on students will be released to third parties only at the written request of the student, or where the student has signed an agreement with a third party, one of the conditions of which is access to their record (e.g., in financial aid).
f. Upon graduation, some personal information will be entered into the alumni database and becomes subject to their privacy policies. The information will be used to notify graduates of university programs and activities, including fundraising and to communicate concerning alumni initiatives, including products or services to alumni. If graduates prefer not to receive such information, they should contact the Alumni Office on campus in person, by telephone or by email at alumni.office@acadiau.ca.

This policy is in accordance with the Nova Scotia Freedom of Information and Protection of Privacy Regulations.

### Transcripts
A student's transcript of record is considered privileged information and will not be released to any individual outside of the University without the consent of the student. As required by their appointment within the University, academic administrators have access to student academic records.

Transcripts include the following information: a) program(s) of study, major(s); b) advanced standing or transfer credit hours; c) grades for all courses attempted while at Acadia; d) a student's academic standing; e) distinctions, including placement on the Dean's List. All transcripts carry only the student's birth month and day. The year of birth is not included.

### Records Retention Policy
The University stores student records in physical (paper) and in electronic (machine-readable) form. With the exception of those files containing documents pertaining to disciplinary action, physical records will normally be destroyed three years after graduation or last attendance at the University. Documentation submitted by applicants who are not accepted, or by applicants who fail to enrol following acceptance, is normally destroyed at the end of each admission cycle. All portions of a student's record that are needed to produce official transcripts are maintained permanently.

### Record Changes
Students are responsible for maintaining the accuracy of their personal information through Colleague Student Self-Service or by contacting the Registrar's Office and completing the required forms.

Registration in courses also consists of maintaining the accuracy of biographical information (i.e., addresses, and telephone numbers, name). Students are expected to make changes through Colleague Student Self-Service as required or to contact the Registrar's Office for assistance. The Registrar's Office can only process changes submitted in writing. Changes made in any other way, formally or informally, are not honoured.

### Identity Policy
Acadia University both aspires, and commits, to principles of equity, diversity, and inclusion. The University believes that the learning, teaching and research environment should be accessible and affirming to the individuals that comprise it. As an individual's identity is at the very core of their personal experience, Acadia affirms that a person's chosen identity will be used whenever possible to ensure a welcoming, inclusive, academic and living environment. The University also confirms to only collect identity information when absolutely necessary, and to restrict its access and use for those purposes. Notable exceptions would be legal and reporting obligations, including for financial purposes.

### Communication
Students are urged to keep their information up-to-date in Colleague Student Self-Service. During the summer months, communications are normally sent to students' permanent addresses unless an alternate address has been filed with the Registrar's Office prior to the advertised deadlines.

In accordance with the University's communication policy, all students are expected to activate and maintain an Acadia email address. The email address assigned to a student by the University will be the only email address used by Acadia for official communication with students for academic and administrative purposes.

## Registration
Registration procedures are the responsibility of the Registrar's Office and will be made known to students, instructors, and administrators via the Registrar's Office website (https://registrar.acadiau.ca), as well as through email communication.

**It is each student's responsibility to ensure that their course registrations and course changes meet their degree requirements.**

The University reserves the right to limit enrolment in any course, course section, or program, but will make every reasonable effort to offer courses required for specific programs and give priority in course registration to students in that program. It does not guarantee enrolment in any course or course section not required for a student's program. Registration is not considered complete until fees are paid. Not every course described in this Calendar will necessarily be offered in any given year. The academic timetable is normally posted by early spring.

### Undergraduate Students
The registration cycle for undergraduate students generally occurs in late May. All students will receive registration information and instructions regarding registration through their Acadia email account. It is each student's responsibility to ensure they complete the registration process and submit payment within the specified deadlines.

### Academic Class Levels
Academic Level 05: 115 or more completed credit hours
Academic Level 04: 85-114 completed credit hours
Academic Level 03: 55-84 completed credit hours
Academic Level 02: 25-54 completed credit hours
Academic Level 01: 0-24 completed credit hours

## Registration Procedures

Students register for courses through Colleague Student Self-Service. Successful registration requires that students:

- attempt registration during the period established for their academic level.
- have met course prerequisites.

### Registering for Summer Courses

Students register for Summer courses through Colleague Student Self-Service. Registration is deemed complete only after the course tuition payment has been made. Courses offered in Summer may be cancelled due to insufficient enrolment.

### Registering for Online Courses

Current Acadia students register for online, continuous-intake (COI) courses through Colleague Student Self-Service. Registration is deemed complete only after the course tuition payment has been made. Students are provided access to their online course after registration has been completed and fees have been paid. New students must first apply to Acadia before registering for an online, continuous-intake course.

### Academic Advisors

Every Acadia University student is assigned an academic advisor. Students who require academic advice or information regarding program planning are encouraged to seek it from their advisor. Students unsure who their academic advisor is should contact their Department Head or Program Coordinator or check Self-Service for more information.

### Other Advisors

The University has a general student support advisor, an international student advisor, an Indigenous student advisor, and a Black student advisor available to help with questions and provide information and support. For more information or to schedule an appointment, see https://www2.acadiau.ca/student-services.html.

### Registrar's Office

Students seeking general advice and/or information about registration, such as deadlines, policies, procedures, resources, etc. are encouraged to visit the Registrar's Office website (https://registrar.acadiau.ca) or to contact the Office directly (902-585-1222; registrar@acadiau.ca, or visit us on campus).

## Course Numbering

Four figures appear for each course listed in the Calendar. The first figure indicates the year of attendance in which the course is normally taken. '0' indicates a course which may not be offered for credit towards a degree program. '1', '2', '3' and '4' indicate courses at the undergraduate level. '4' also indicates a course taken in a post-baccalaureate professional program. '5', '6' and '7' indicate courses taken at the graduate level. '8' indicates courses offered at the post-baccalaureate level for purposes of professional improvement. '9' indicates courses taken elsewhere and accepted for transfer credit but without an Acadia equivalent.

The second and third figures provide a serial listing, from 00 to 99, of the various courses given by a Department or School in each year of attendance.

In the fourth place, the digit '1' indicates a one credit hour course (1h), the digit '3' indicates a three credit hour (3h) course, '6' indicates a six credit hour (6h) course, and '0' a non-credit course. An alpha character indicates a non-standard credit value. Laboratory hours are additional.

## Subjects

| | |
|---|---|
| APSC | Applied Science |
| ART | Art |
| BIBL | Biblical Studies |
| BIOL | Biology |
| BUSI | Business Administration |
| BIOT | Biotechnology |
| CDNS | Canadian Studies |
| CHEM | Chemistry |
| CLAS | Classics |
| CODE | Community Development |
| COMM | Communication |
| COMP | Computer Science |
| COOP | Co-operative Education |
| CREL | Comparative Religion |
| ECON | Economics |
| EDUC | Education |
| ENGL | English |
| ENVS | Environmental Science |

| | |
|---|---|
| ESST | Environmental & Sustainability Studies |
| FRAN | French |
| GEOL | Geology |
| GERM | German |
| GREE | Greek |
| HEBR | Hebrew |
| HIST | History |
| IDST | Interdisciplinary Studies |
| KINE | Kinesiology |
| LANG | Languages |
| LATI | Latin |
| LAWS | Law and Society |
| MATH | Mathematics and Statistics |
| MIKM | Mi'kmaw |
| MUSI | Music |
| NURS | Nursing |
| NUTR | Nutrition |
| PHIL | Philosophy |
| PHYS | Physics |
| POLS | Political Science |
| PSYC | Psychology |
| SOCI | Sociology |
| SOPT | Social and Political Thought |
| SPAN | Spanish |
| THEA | Theatre Studies |
| THEO | Theology |
| WGST | Women's and Gender Studies |

Please note that the listing of a course in the Calendar is not a guarantee that the course is offered every year. Check the Timetable for up-to-date course offerings.

## Prerequisites, Corequisites, and Antirequisites

Prerequisites, corequisites, and antirequisites are stated in the Academic Calendar course description. Where a prerequisite is stated, it is understood that equivalent courses may be used to satisfy the requirements.

## Course Schedules

The regular hours of the University are Monday to Friday, with classes running between 8:30 a.m. and 9:30 p.m. The University reserves the right to change the times and the academic instructor(s) of a course from those advertised in the official Timetable. A 3 credit hour course will have a minimum of 36 contact hours.

## Course Loads

### Fall and Winter Term Course Load

Any person registered for at least 9 credit hours (9h) of instruction in either the fall term or the winter term is a full-time student for that term. Any person registered for less than 9 credit hours (9h) of instruction in either the fall term or the winter term is a part-time student for that term. Students registered with Accessible Learning Services may be eligible as full-time students taking a reduced course load. For more information on this and other accommodations, please contact Accessible Learning Services at accessible.learning@acadiau.ca.

### Summer Course Load

A maximum of 9 credit hours (9h) may be taken in each 6-week period of Summer. Exceptions to this are for Science courses with laboratories, and also for Graduate courses, where the maximum is 6 credit hours (6h). In effect, a maximum of 18 credit hours (18h) may be taken in between the preceding Winter term and the subsequent Fall term.

### Online Course Load

Full-time Acadia students may take online courses during the Spring and Summer period, or at any other time with written permission of their Dean, Director, or Department Head provided to the Registrar's Office. Students who have achieved a sessional grade point average of 2.50 in the previous academic year may register for a total of 33 credit hours (33h). Those who have achieved a sessional grade point average of 3.00 in the previous academic year may register for a total of 36 credit hours (36h). First-year students may register in no more than 30 credit hours (30h). Acadia students graduating in May must complete online continuous-intake courses by April 15th in order to allow time for the processing of grades before graduation.

Part-time students may register for a maximum of 12 credit hours (12h) of online learning courses at any one time.

## Overloads

Students who have achieved a sessional grade point average of 2.50 in the previous academic year may register for 33 credit hours (33h). Those who have achieved a sessional grade point average of 3.00 in the previous academic year may register for 36 credit hours

(36h). First-year students may register in no more than 30 credit hours (30h). No student may register for more than 18 credit hours (18h) in any term. For information on taking online, continuous-intake courses as overload, refer to the Online Course Load section. Please refer to the Fees section for information about overload fees.

### Auditing Courses

An audit student has been granted permission by the course instructor to attend lectures in a course on the understanding that the student may not participate in class discussions (except by invitation of the instructor), submit assignments, or sit for examinations. No degree credit is granted for the course. Graduate students are not permitted to audit courses. Online courses may not be audited.

## Graduate Students

### Registration

Students must register for courses through Colleague Student Self-Service: http://collss.acadiau.ca/student. If all course requirements for the degree have been completed, except for the final project or thesis, then the student is only required to re-register in the thesis or project.

Thesis students who exceed the full-time residency status for their program are required to registered in the thesis course for the Summer session.

MEd cohort students and PhD Educational Studies students will have their course registrations automatically completed by the Graduate Education Course Manager.

Registration is complete once a student has paid the required fees through the Student Accounts Office.

Any graduate student (excluding MEd students) who is absent from the University for one semester, and who wishes to return for further studies, must re-apply for admission and complete the required application form. PLEASE NOTE that re-admission to a program is not guaranteed.

All graduate students are responsible for ensuring that their degree requirements are met (i.e., all courses completed and fulfilling the current academic standing requirements). Students should consult with their supervisor(s) for confirmation of degree requirements for their program.

Part-time graduate students (excluding MEd students and MAK Coaching students) must maintain continued enrolment in their graduate program each semester. Course registration is only completed once university fees are paid in full. Failure to self-register and pay the fees owing will result in discontinuation from the program.

The supervisor(s) of students who have become part-time students are expected to maintain supervision and monitor the progress of students to help ensure degree completion. Supervisors should meet with part-time students on a regular basis (at least once per semester). Meetings may include other members of the student's supervisory committee. The frequency of these progress meetings may vary in accordance with specific program policies and the needs of the supervisor and/or student.

A **part-time student progress report** (https://gradstudies.acadiau.ca/Forms.html) is to be completed when scheduled progress meetings take place. When the form is completed, a co-signed copy is to be shared with the student, supervisor, Graduate Coordinator, and the Department Head/School Director.

In cases where a graduate student is not making satisfactory progress with their degree (in the absence of circumstances that understandably delay progress), the supervisor(s) and Graduate Coordinator may make a request to the Vice-Provost, Academic Policy and Graduate Studies to have the student deregistered or dismissed from the program. In considering the request, the Vice-Provost, Academic Policy and Graduate Studies will request a meeting with the student to discuss the circumstances and then meet with the Graduate Coordinator and supervisor(s) to discuss possible next steps. A designate must be appointed in the case that the Graduate Coordinator is the supervisor of the student.

#### Course Loads

A student's full-time or part-time status in an MA/MSc/MCD program is determined by the 1-yr or 2-yr program requirement, and not the number of credit hours in which they are registered per term. This is also the case for the MAK (Exercise Stream, Applied Research Stream, and the full-time Coaching Stream).

- MA in ENGL, POLS, SOCI; and MSc in GEOM – Full-time for 12 months
- MA in SOPT; MSc in BIOL, CHEM, COMP SCI, GEOL, MATH, PSYC; MCD; and MAK (Exercise Stream, Applied Research Stream, and full-time Coaching Stream) – Full-time for 24 months

A student's full-time or part-time status in an MEd program or MAK – Part-time Coaching Stream is determined by the number of credit hours in which they are registered per term. Registration in 9 or more credit hours in a given term is automatically considered full-time status.

Students registered in the PhD in Educational Studies program are considered full-time for the entirety of their degree program.

Candidates may complete requirements for Master of Education programs through part-time study. Selected graduate courses in education are offered through Open Acadia. It is the student's responsibility to plan so that all program requirements are completed, seeking advice from the Graduate Education Coordinator, as may be required.

Part-time students enrolled in the Counselling program should plan one year in advance for the required 500-hour block practicum for which they must be available on a full-time basis for four months. All students enrolled in EDUC 5066 are recognized as having full-time status during their practicum semester.

**Course Requirements for Master's Degrees**
Candidates for the master's degree may take courses of two kinds: program and non-program courses which are offered for credit towards the degree, and may be of three types: compulsory, elective, and make-up. (Candidates with an insufficient background may be required by the Department or School concerned to take make-up courses.) Education students may take a maximum of 12 credit hours at the graduate level as independent students before entering the MEd program.

Students should refer to their Department/School for course and credit hour requirements for their degree program.

Additional requirements may be included at the discretion of the Department/School.

All departments and schools offering graduate programs are required to make available to students a listing of any deadlines or requirements specific to that unit.

**Thesis Requirements for Master's Degrees**
Except where the program specifically exempts it, every candidate for a master's degree must prepare a thesis under the direction of a supervisor, who must be a faculty member or a supervisory committee, appointed by the Department/School or Graduate Studies. Candidates for a master's degree with thesis will be required to defend this thesis orally.

The thesis must be written in English and be prepared in a format approved by the Department or School and Graduate Studies. A detailed leaflet on the preparation and presentation of theses is available on the Graduate Studies website at: http://gradstudies.acadiau.ca/Forms.html

## Co-operative Education (Co-op)

Co-operative Education (Co-op) is an educational strategy that formally integrates academic studies with discipline related, paid work experience with participating employers in all sectors including not-for-profit and for-profit organizations; all levels of government; small, medium, and large corporations, primarily (not limited to) within Canada. Co-op students apply the concepts and theories they learn in the classroom to relevant workplace situations enhancing their understanding of their program of study. Co-op work experience enables students to refine their career goals guiding them to relevant, full-time employment upon graduation or motivating them to pursue further education.

Students apply for admission to Co-op after completing a minimum of 24 credit hours (24h). Applications are due to the Co-op Office by early October each year. Students who have completed more than 75 credits hours (75h) are no longer eligible to apply. A minimum cumulative 2.50 GPA is required at the time of application. All new Co-op students are required to attend professional development workshops in preparation for their first Co-op work term. Students alternate study terms with Co-op work terms, completing 3 four-month Co-op work terms with an optional fourth, or a 12 or 16-month internship, ending on a study term, to complete Co-op. Each Co-op work term is a course with corresponding tuition fee, which is awarded a pass or fail grade. Students will receive two credit hours (2h) for each of the first three four-month Co-op courses completed, or 6 credit hours (6h) for completion of a 12 or 16-month internship (up to a maximum total of 6 credit hours (6h), which count as two elective courses towards graduation requirements). Co-op is noted on the student's final transcript of marks as well as on the degree parchment. See Co-op course descriptions for further details on course requirements.

Students completing Co-op will graduate with the added benefit of a year or more of practical experience in their field of study. Studies show that Co-op graduates gain employment sooner after graduation, have higher starting salaries, and are more likely to find employment related to their degree area than non-Co-op graduates. For further information, visit http://co-op.acadiau.ca.

## Open Acadia

Open Acadia provides innovative, inclusive, and accessible learning opportunities for Acadia students and the wider community. The unit facilitates summer and online, continuous-intake courses providing students with flexible options to work towards their degree. Educational opportunities are also offered to youth, professionals, and seniors. Programs are delivered using pedagogical methods that match the preferences of diverse student groups, either on-campus, off-campus, or online.

Open Acadia's Learning Innovation team provides support to all Acadia faculty who are teaching Acadia courses. The unit provides instructional design support for the development and teaching of online courses, as well as scheduled training and workshops for Acadia faculty.

Open Acadia also provides advanced support for selected applications including Moodle and the Survey System (LimeSurvey), as well as technical support for technology-based exams.

**Online Learning**
Open Acadia's online, continuous-intake courses provide a flexible, self-paced alternative to on-campus study. Students can start courses at any time and have up to 6 months to complete most 3 credit hour (3h) courses. For courses requiring a proctor for exams, Acadia provides proctoring services both on and off campus. Online, continuous-intake courses are not included in full-time tuition fees (per-course fees apply).

**Summer**
With Acadia's Summer courses starting in May each year, students can complete courses in as little as 3 weeks. Courses are offered in a variety of formats, including in-person, fully online (using synchronous and/or asynchronous modalities), or hybrid versions combining the two. A maximum of 9 credit hours (9h) may be taken in each 6-week period of Spring and Summer. Exceptions to this are for science courses with laboratories and for Graduate courses, where the maximum is 6 credit hours (6h).

**Graduate Teacher Education**
Open Acadia supports Acadia's School of Education in providing full-time and part-time graduate students with flexible study choices and cohort options. Master of Education and Certificate programs are offered through fall, winter, spring, and summer at Acadia's campus and at locations around the province. Selected courses are also available in a self-paced online, continuous-intake format with 6 months provided to complete most 3 credit hour (3h) courses. Intensive programming takes place during the annual Graduate Summer Institute in July at Acadia.

**Acadia Lifelong Learning**
The Acadia Lifelong Learning (ALL) program is coordinated by Open Acadia. The ALL program provides opportunities for older adults to apply to audit undergraduate credit courses for free (for adults 50+).

**Axcess Acadia**
Axcess Acadia is a 4-year inclusive post-secondary education pathway for students with self-identified intellectual or developmental disabilities who would not qualify for the standard admission to Acadia University. The Axcess Acadia pathway aims to support students in experiencing the opportunity, learning, and growth that comes with attending post-secondary education with their peers. Axcess Acadia students may have the opportunity to receive the Axcess Certificate in Interdisciplinary Studies in the Faculty of Professional Studies. For more information visit https://commdev.acadiau.ca/Axcess_Acadia_info/axcess-acadia-certificate-and-classes.html.

## Academic Changes and Withdrawals

Students are responsible for the accuracy and completeness of their own registration, as well as the fees for courses in which they are registered.

### Undergraduate

**Course Changes and Withdrawals**
It is the student's responsibility to initiate course changes. Discontinuing attendance in classes, notifying an instructor, or stopping payment does not constitute official withdrawal from a course. Undergraduate students who wish to withdraw from a course, add a course, or substitute one course for another, must do so through Colleague Student Self-Service, or in writing through the Registrar's Office. Specific dates and deadlines for course changes and withdrawals are outlined in the Calendar Dates section at the front of this Calendar.

**Course Add/Change**
Students may add or change course registrations up to the 'Course Add/Change' date specified in the Calendar Dates at the front of this Calendar.

**Course Withdrawal**
The time period in which a student withdraws from a course has implications for the grade received. Deadlines are specified in the Calendar Dates section at the front of this Calendar.

- To receive a **No Record Withdrawal** (course does not appear on the transcript), a student must withdraw by the *Last day to withdraw from a Fall or Winter course without a "W" appearing on the transcript* deadline.
- To receive a **'W' (Withdrawal)**, a student must withdraw by the *Last day to withdraw from a Fall or Winter course without an "F" appearing on the transcript.*
- The notation **'F' (Fail)** will appear on a student's official record when students withdraw after the last day to withdraw, unless permission has been granted by the Dean for the course to be discontinued without academic penalty, generally for substantial medical, psychological, or compassionate reasons.

**Withdrawing from an Online, Continuous-Intake Course**
Students withdrawing from an online, continuous-intake course must request the withdrawal in writing to the Registrar's Office, or through the withdrawal form found at **hub.acadiau.ca**. Based on the date of registration into the course, the following policies apply:

- If the withdrawal request is received within 30 days, the course will be removed from the transcript.
- If the withdrawal request is received within 1 to 5 months, a **'W' (Withdrawal)** will be recorded on the transcript.
- If the withdrawal request is received after 5 months, an **'F' (Fail)** will be recorded on the transcript.

Note: If a student does not complete the course, and has not officially withdrawn, an 'F' (Fail) will be recorded on the student's transcript.

**Program Changes**
Students who wish to transfer from one program to another must have the change approved by the School Director, Department Head, or Program Coordinator for the program they wish to enter, and by the Registrar's Office. Normally students must have a GPA of at least 2.00 to enter a program and a GPA of 3.00 to enter an Honours program.

**Withdrawal from the University**
Undergraduate students wishing to withdraw from the University must notify the Registrar's Office **in writing** or through the withdrawal form found at **hub.acadiau.ca** of their intention to withdraw. Discontinuing attendance in classes, failure to submit any assignments, notification to the instructor, or stopping payment, does not constitute official withdrawal. Students who decide not to attend the University must cancel their registration prior to the withdrawal deadlines established for each term.

**Absence Policy**
When required, a student must complete a Declaration of Cause form and submit it, along with any relevant documents, to each of their course instructors. In the case of missing a Final Examination, the procedures for "Setting and Conducting a Special Exam" (detailed under "Examinations" in our Academic Calendar) will be followed, and the Declaration of Cause form and any relevant documents should be submitted to the Registrar's Office.

## Graduate

**Course Changes and Withdrawals**
It is the student's responsibility to initiate course changes. Discontinuing attendance in classes, notifying an instructor or stopping payment does not constitute official withdrawal from a course. Graduate students who wish to withdraw from a course, add a course, or substitute one course for another, must do so through Colleague Student Self-Service, or by contacting the Graduate Studies Officer. Specific dates and deadlines for course changes and withdrawals are outlined in the Calendar Dates section at the front of this Calendar.

**Program Withdrawal**
Graduate students who wish to withdraw from their program must, in writing, inform their supervisor, Head/Director and Graduate Coordinator in their Department/School, and the Graduate Studies Officer.

**Important Note Regarding Grades Associated with Graduate Program Withdrawals**
When a full-time graduate student formally withdraws from a degree program, Graduate Studies will refer to the University Calendar dates regarding possible course change penalties and then consult with the Graduate Coordinator regarding outstanding grades. When a continuing graduate student formally withdraws from studies, the student will receive a grade of "W" for the thesis or project course.

**Leaves of Absence**
A leave of absence is a way for students who are experiencing out-of-the-ordinary circumstances to take time off during their degree program. Common reasons include maternity/parental leave; compassionate leave; illness; or employment.

1. Graduate students taking leave of absence must do so in the manner prescribed by the Office of Graduate Studies (https://gradstudies.acadiau.ca/Leaves_Extensions.html).
2. Students must complete and submit the signed "Leave of Absence" form to the Graduate Studies Officer, Office of Graduate Studies.

Leaves may have student loan consequences. Students considering taking a leave should contact Student Accounts for further details.

The student is responsible for withdrawing from courses during the approved leave period. Graduate Studies will ensure that the thesis course (if applicable) is removed from the record.

If applicable, the person responsible for payment of funds (e.g. Scholarship, RA or TA) is required to initiate a stop pay on the funding source for the duration of the approved leave.

SPECIAL NOTE: Leaves should be requested before a semester begins. If that is not the case, the student is subject to refund and course withdrawal penalties based on the date the leave of absence form is received in Graduate Studies, and in accordance with the "Academic, Student, Residence and Meal Plan Withdrawal/Cancellation Fees" section of the current University Academic Calendar (https://registrar.acadiau.ca/AcademicCalendars.html).

Any approved leave of absence will result in a reduction in months of study on a student's T2202 (Tuition and Enrolment Certificate) to reflect the timeframe of the leave.

Typically leaves are granted for the following:

**Maternity/Parental Leave**
Maternity/parental leave will be granted upon request to graduate students, without prejudice to their academic standing, for a period of up to 52 weeks. Where both parents are graduate students seeking leave, the combined total may not exceed 52 weeks. Leaves must be completed no later than 1 year after the date of birth or assumption of custody. Statutory periods for completion of the degree program will be extended by the length of the leave. Maternity/parental leave frees students from paying regular fees and at the same time releases the University from providing them with services. However, students may choose to maintain computer network, email, and library access during the period of the leave. Financial support from university sources will normally be suspended during the period of the leave and, where possible, will be reinstated upon completion of the leave. It is the responsibility of the student to determine the status of funding from all external sources.

**Leave Due to Illness**
A leave of absence due to illness will be granted upon request to graduate students, without prejudice to their academic standing, for a period of up to 52 weeks. Students will normally be granted such a leave only once in the course of their program. Statutory periods for completion of degree programs will be extended by the length of the leave. Leave due to illness frees students from paying regular fees and at the same time releases the University from providing them with services. However, students may choose to maintain computer network, email, and library access during the period of the leave. Financial support from university sources will normally be suspended during the period of the leave and, where possible, will be reinstated upon completion of the leave. It is the responsibility of the student to determine the status of funding from all external sources.

**Compassionate Leave**
Graduate students will be provided with compassionate leave for a period of up to 52 weeks for the care and support of a seriously ill family member. This leave is not intended to cover circumstances related to travel, employment, or other financial concerns. Statutory periods for completion of degree programs will be extended by the length of the leave. Once on leave, students will not be registered with the University, but they may choose to maintain computer network, email, and library access during the period of the leave. Financial support from university sources will normally be suspended during the period of the leave and, where possible, will be reinstated upon completion of the leave. It is the responsibility of the student to determine the status of funding from all external sources.

**Employment Leave**
Full-time graduate students may take a leave of absence for employment reasons for a period of up to 52 weeks once in the course of their program. Students taking employment leaves are responsible for verifying that all required elements of their program will be available upon their return. However, students may choose to maintain computer network, email, and library access during the period of the leave. It is the responsibility of the student to determine the status of funding from all external sources.

## Degree Requirements

Undergraduate

### Residency Requirements

Students may normally transfer to Acadia from other accredited universities up to the first 60 credit hours (60h) required for a 120 credit hours (120h) degree program. Students also may transfer from elsewhere 6 credit hours (6h) of the last 60 credit hours (60h) required for their intended degree.

### Credit for Courses Taken Elsewhere

#### Transfer Credits

Transfer credit may be given for individual courses taken at other accredited universities or institutions, with a minimum grade of C- (or equivalent). Courses will transfer to the Acadia transcript with a grade of P.

All courses transferred for credit must be applicable to the student's program of study at Acadia University and may reduce the total number which must be taken for a degree at Acadia.

Transfer credits should be distinguished from Advanced Standing. Advance Standing is placement at a certain level in a specific subject area by a Department or School of the University.

Credit is not given for courses taken elsewhere while a student is on academic dismissal from Acadia.

#### Letter of Permission (LOP)

A student enrolled at Acadia University, who wishes to take a course at another university for transfer of credit to Acadia, must obtain approval in writing and in advance for this through the Registrar's Office. If approval is obtained, the Registrar will issue an appropriate Letter of Permission for the student to provide to the university that the student wishes to attend. Applicants are reminded that normally the last 60 credit hours (60h) required for a degree must be taken at Acadia. This does not include students participating in Acadia's recognized exchange programs.

Courses completed on a Letter of Permission will transfer to the Acadia transcript with a passing grade of P if successfully completed with a minimum grade of C- (or equivalent).

Please note: Letter of Permission students who are potential graduates must have their exams written and official transcripts sent to the Registrar's office **one month** prior to their graduation date.

### Prior Learning Assessment and Recognition (PLAR)

Prior Learning Assessment and Recognition (PLAR) allows for students to be recognized for both admission and credit equivalency purposes towards Acadia Programs based upon previous professional, cultural, and/or lived experiences and learning. The University recognizes that knowledge, skills, and abilities can be acquired through various experiences (formal, informal, and non-formal) as well as demonstrated in varying ways.

If a student believes that their prior learning experiences should be considered for admission and/or credit towards Acadia courses, they can apply for PLAR.

#### Residency Requirement

Please note that similar to transfer credit, students may not exceed 60 credit hours towards a degree program through PLAR.

#### Applicability and Exclusions

As certain programs have professional accreditation and/or departmental requirements, PLAR may not be available as an option for admission and/or to be considered for course equivalencies.

#### Types of Assessment

A PLAR assessment process may involve one, or any combination of the following (but not limited to): a skills and experience portfolio; a challenge exam, an interview; and/or skills/knowledge demonstration. Applicants are also encouraged to submit expressions of support from people, in mediums of their choosing, that can attest to the applicant's skills, aptitudes, and/or community involvement and impacts.

To obtain a PLAR form to begin the assessment process, please visit: https://registrar.acadiau.ca/RecordsandOtherRequests.html

#### Minimum Timeframe

Students are to submit materials no later than eight weeks prior to the start of the desired entry term. Submissions received after this date will be processed, when possible, but may not be ready for the start of the term.

**Fees for Assessment**
Students will be charged a one-time, non-refundable PLAR assessment fee equivalent to 50% of a 3 credit hour domestic course, regardless of the number of credits awarded.

**Principles of PLAR Assessment**

1. PLAR can be used for either admission or credit completion purposes.
2. The Registrar's Office will coordinate all Acadia PLAR activities related to credit.
3. The Admissions Office will coordinate all Acadia PLAR activities related to admission.
4. Academic units will be involved in, and have the final decision on, PLAR based admission into their respective programs.
5. Academic units will be involved in, and have the final decision on, PLAR course equivalency credits awarded.
6. The determination of equivalency, including level, type, and amount of credit will be made by the academic units and appropriate subject matter experts.
7. Recognition of specific course equivalencies are granted where a passable standard of the knowledge, skills, attributes, and/or outcomes expected upon course completion are demonstrated.
8. PLAR credits will be counted towards program progression and overall credit hour completion but will not be counted towards the GPA. Granted PLAR equivalencies will appear on the official transcript and will show as a P grade.
9. PLAR for course credit equivalency cannot be sought for courses previously attempted at Acadia, whether successful or not.

## Limits of Undergraduate Program Requirements

Students may fulfill the curriculum for the degree or diploma requirements stated either in the Calendar current when they were accepted to their program or those stated in the Calendar of the year of graduation, except (1) those readmitted following academic dismissal who must fulfill the requirements of the Calendar of the year of readmission or of graduation, and (2) in those programs whose requirements must comply with criteria established by external bodies such as Departments of Education, CDA, etc.

## Extensions for Online Continuous-Intake Courses

Students who for various reasons are unable to complete their online continuous-intake course in the allotted 6-month course completion timeframe are eligible for an extension. Extensions are valid for a 2-month period, and each course may be extended up to 3 times, to a maximum of 6 months of extended time. Extensions are available for continuous-intake online courses only. It is recommended that students contact their instructor prior to submitting an extension request to discuss a course completion plan.

Requests must be submitted through the HUB request form at least one month in advance of the original completion date.
The extension extends the course from the originally scheduled completion date, and payment is applied to the student's account for payment.

Course Extension Fee: $150 per 2-month extension request

**Open Acadia will provide consideration to fees being waived for extension requests related to exceptional circumstances such as medical considerations, and requests made by Acadia's Accessible Learning unit*.

## Multiple Course Attempts

Students can register for an attempted course for a second time without seeking permission. Any additional attempts to register for the same course requires permission from the Head, Director, or Coordinator of the home unit offering the course. Please note that drops or withdrawals do not count as attempts, and only the most recent grade in repeated courses will be included in any CGPA calculation.

## Minors

Students must be in good academic standing to declare a minor.

Students can declare a minor at any time, from the Academic Units that offer minors, but should do so before third year to ensure appropriate course selection and program plans.

Academic Units offering minors are responsible for deciding the requirements of the minor, and which courses are eligible to be included in the minor.

Minors should be no fewer than 18h and no more than 24h in one subject area.

Students cannot obtain credit for more than 6h of 1000 level courses towards an 18h minor, unless explicitly specified by an academic unit.

## Second Undergraduate Degree Requirements

A student who wishes to obtain a second undergraduate degree must complete a minimum of 30 credit hours (30h) subsequent to completing the requirements of the first degree. This minimum 30h must include all specific courses and grade requirements that are different from the first degree and must include a new major. Where the second degree requires a major concentration, at least 12h of the 30h must be in the discipline of that concentration.

## Honours Conversion

Students holding an ordinary undergraduate degree from Acadia University who subsequently complete additional studies that fulfill honours degree requirements, but in less than an additional 30h, cannot be awarded a second degree. Rather, they will be issued a letter attesting that they now hold the equivalent of an honours degree.

## Graduation
Students must apply to graduate. Application deadlines appear in the Calendar at the front of this document. The Application to Graduate opens in September for Spring Convocation and January for Fall graduation. Students should use the Colleague Student Self-Service form to apply. A late fee is charged when an application for graduation is made after the published deadlines.

## Final Year Grade Exception
In cases where a potential graduate from an undergraduate program earns a grade of D-, D, or D+ in their final academic year, and would be prevented from graduating based upon this sole grade, the student will, at the discretion of their academic program Director or Dean, be permitted to graduate provided all other degree completion requirements have been met.

## Aegrotat Standing
Aegrotat standing may be awarded in rare cases in which a student, based on serious medical or similar evidence, is unable to complete program requirements within a reasonable time, or at all. The designation is normally applied toward the end of a student's degree program and may result in the awarding of an Aegrotat degree.

An Aegrotat degree is awarded only to students in good standing who have been unable to complete their program due to extraordinary and extenuating medical circumstances, usually resulting in death or permanent incapacitation. Normally, at least 75 per cent of the requirements for a credential must be successfully completed, with the balance fulfilled through the awarding of Aegrotat standing.

Aegrotat standing is rarely granted. A formal request must be submitted to the Dean of the faculty in which the student is registered during their graduating year. The approval of the Dean and the Vice-President Academic is necessary to grant this status.

## Designations
### University Scholar
A candidate for a bachelor's degree shall be granted the designation "University Scholar" provided that the student has received credit for at least 90h taken from Acadia, obtained a CGPA of at least 3.50 on all Acadia courses, and obtained no mark below B- for any university course taken at Acadia or elsewhere. Students who participate in study abroad programs will not be penalized.

### Dean's List Scholar
Dean's List distinction is considered annually at the end of the Winter term. To be considered eligible, undergraduate students must achieve an SGPA of 3.70 or above and have completed a minimum of 9 credit hours (9h) in each Fall and Winter term (minimum 18 credit hours (18h) total). Students who participate in Co-op, study abroad or exchange programs and have the equivalent of full-time status will be considered. Students with documented disabilities and respective accommodation for course loads will also be potentially eligible. The Dean's List notation will appear on the transcript.

Graduate

## Credit for Courses Taken Elsewhere
#### Transfer Credits – Graduate
With the approval of the graduate Department/School, students may be eligible to transfer a maximum of 12 credit hours (12h) taken at other accredited universities or institutions to a graduate program. Courses will transfer to the Acadia transcript with a grade of P. All courses transferred for credit must be applicable to the student's program of study at Acadia University and may reduce the total number which must be taken for a degree at Acadia. An evaluation of transfer credit is made by the academic unit in consultation with the Registrar's Office upon admission.

#### Letter of Permission
Students who have started a master's program may transfer credit up to the 12 credit hour (12h) limit provided they receive approval in writing, and in advance, from the relevant Department or School. If approval is obtained, the Registrar's Office will issue an appropriate letter of permission to the university that the student wishes to attend. No other arrangement, verbal or written, constitutes an agreement for the transfer of credit.

#### Returning to Acadia after Graduation to Complete a Course(s)
Once graduation has taken place, a program has ended. The parchment and transcript reflect the earned credentials at that point. This does not prohibit students from taking additional courses afterwards as an "independent" student. Courses taken outside of the graduated program are noted on a transcript after the graduation notation.

In instances where a student completed a course-based degree program (i.e., MEd or MSc in Applied Geomatics), the student has the option to return to Acadia after graduation to complete a thesis, provided supervision is available. In such cases, it is the responsibility of the student to contact the Department/School and a potential supervisor.

If a student was originally registered in the thesis stream and later switched to a course-based stream, they may be able to complete the thesis, provided supervision is available, without a re-application of admission. In cases where the thesis course was previously paid for, a fee for completing the thesis will not be required if the student returns within 36 months of graduation. Those returning after 36 months will be required to pay the applicable continuance fee or applicable per course fee (depending on the program of study).

## Time Limits of Graduate Program Requirements

**Master of Arts, Master of Science, Master of Applied Kinesiology, Master of Community Development**

All requirements for the 2-year degree programs (all Science, Applied Kinesiology, Community Development, Social and Political Thought) must be completed within six (6) years of first registration. All requirements for graduate degrees in Arts, not including Social and Political Thought, must be completed within five (5) years of first registration.

**Master of Education**

All requirements for the degree must be completed within four (4) years of completion of course requirements, subject to a maximum of eight (8) years between first registration as an MEd student and completion of the requirements for the degree.

**Extension to time limits of Program Requirements**

If a graduate student requires an extension to their time limits, they must apply using the prescribed form no later than three (3) months prior to the requested extension period. The extension requires the support of the thesis supervisor (in the case of non-thesis students the Graduate Coordinator) and the Department/School Head/Director. Extensions are not automatic and will be granted only in cases of extenuating circumstances. The form can be located at:
http://gradstudies.acadiau.ca/tl_files/sites/gradstudies/docs/ThesisExtension.pdf

**An important note about program lapse**

If there has been no application for program extension, and no formal withdrawal, the student will receive a grade of "F" (fail) for the thesis or project course once the program time limits (above) have been reached.

## Academic Standing

### Undergraduate

Academic Standing is the status of a student based on their grade point average. Academic Standing will be assessed in the spring for all students who have attempted 18 credit hours (18h) or more since the last assessment. As a result of that assessment, students will find themselves in one of three situations:

1. **Good Standing**
   Any student who obtains a sessional grade point average of at least 1.50 is considered to be in good academic standing and will be permitted to proceed on a full-time basis.

2. **Academic Probation**
   Any student who obtains a sessional grade point average of at least 1.00 and less than 1.50, and who has not already incurred probation, will be placed on academic probation, but is eligible to re-register. Students on probation may be placed on a reduced course load and are required to participate in the Academic Success and Support Program (ASSP).

   ***Academic Success and Support (ASSP) Program***
   All students placed on probation are required to participate in the Academic Success and Support Program. The Academic Success and Support Program enables students on academic probation to return to Acadia and develop the skills required to be successful. The ASSP requires students to attend classes, as well as to work with advisors and other support staff in order to improve their academic standing.

3. **Academic Dismissal**
   a. Any student who obtains a sessional grade point average less than 1.00 will be placed on dismissal.
   b. Any student placed on probation and registered in more than 15h in the succeeding fall/winter session who obtains a sessional grade point average less than 1.50 will be placed on dismissal.

During the subsequent twelve-month period after incurring dismissal, students may not register for any course offered by Acadia University, nor receive credit for any course taken elsewhere. At the end of the period of academic dismissal, students may apply for re-admission and, if accepted, will be placed on academic probation. Students registered in Summer or online courses prior to receiving a notice of probation or dismissal will be permitted to complete these courses.

**Notification and Appeal**

All students who incur academic probation or dismissal will be advised in writing of their academic status, appeal procedures, and dates (identified at the beginning of this Calendar).

Decisions made by the Committee following an appeal are final.

**Academic Standings Appearing on Official Records**
A student's current academic standing appears on their official record. Standings will be one of:

- Good Standing
- Academic Probation
- Academic Dismissal
- Graduated

## Bachelor of Education

**Progression into The Teaching Profession**
Students who fall into any one of the following categories may be placed on probation and not permitted to proceed/continue in their teaching practicum following a coursework term. Students who:

- fail to complete and submit their coursework before the beginning of the ensuing practicum
- fail a course in the BEd curriculum
- are found to be unprofessional according to the School of Education Professional Conduct Manual and NSTU Code of Ethics

**Dismissal from the BEd Program**
Failure in any two courses (including field placement courses) in the BEd program will result in dismissal from the program. This includes:

- failing a course once, repeating the course and failing again
- failing a course, repeating the course and passing, and failing another course
- failing two different courses. There will be no opportunity to repeat the courses

**Notification and Appeal**
Any BEd student incurring academic probation or dismissal will be advised in writing of their academic status, appeal procedures, and dates (identified at the beginning of this Calendar.)

## Graduate

All courses taken as part of the degree program must be completed with a minimum grade of B-. In programs other than Psychology, students receiving less than B- in a course will have to repeat it if it is a compulsory course or repeat/replace it if it is a program elective; however, a student who has received grades lower than B- (70%) in 6h of program courses is not permitted to continue in the graduate program and will incur academic dismissal. Departments/Schools may have additional requirements that must be met. Failure to meet these requirements may result in dismissal from the program. Dismissal from a program can only be done by the Vice-Provost, Academic Policy and Graduate Studies after consultation with the Head of the Department or School, the Graduate Coordinator of the Department or School, and the student in question.

Graduate students in Psychology who obtain a final grade below B- in any course must withdraw from the program, unless special permission to continue in the program is granted by the Department.

**Graduate Supervision**
A student who has exhausted all avenues for supervision within the Department or School in which they are enrolled may be dismissed from their graduate program. This action can only be taken by the Vice-Provost, Academic Policy and Graduate Studies after consultation with the Head/Director of the Academic Unit, the Graduate Program Coordinator, and the student in question. A designate must be appointed in the case that the Head/Director or the Graduate Program Coordinator is the supervisor of the student. All avenues will be taken to protect the privacy of the student during these consultations.

Appeals against dismissal may be made to the Senate Admissions and Academic Standing Appeals Committee through the Provost and Vice President Academic. Decisions of the Committee are final.

**Graduate Thesis Supervision Conflict Policy**
At times conflict arises in a supervisory relationship. It is imperative that troubling issues be addressed at an early stage before they lead to a deterioration of the working relationship. Resolution at an early stage should be between the student and the supervisor, without the necessity of involving others. However, given the power imbalance in a supervisor relationship, if students are uncomfortable approaching their supervisors on issues of conflict, or if the supervisory relationship has deteriorated to the point where the likelihood of resolution at this informal stage is remote, the procedures outlined in the Thesis Supervision Guidelines document (https://gradstudies.acadiau.ca/tl_files/sites/gradstudies/docs/GraduateSupervision.pdf) are to be followed.

The student may be discontinued/dismissed from their graduate program if alternative supervision options within the Department or School (or another academic unit) have been exhausted. This action can only be taken by the Vice-Provost, Academic Policy and Graduate Studies, after consultation with the Head/Director of the Academic Unit, the Graduate Program Coordinator, and the student in question. A designate must be appointed in the case that the Head/Director or the Graduate Program Coordinator is the supervisor of the student. All avenues will be taken to protect the privacy of the student during these consultations.

## Academic Integrity

Appeals against discontinuation/dismissal may be made to the Senate Admissions and Academic Standing (Appeals) Committee through the Provost and Vice President Academic. Decisions of the Committee are final.

Academic integrity demands responsible use of the work of other scholars. It is compromised by academic dishonesty such as cheating and plagiarism. A student who is uncertain whether or not a course of action might constitute cheating or plagiarism should seek in advance the advice of the instructor involved. The following are considered infractions of academic integrity and may lead to sanction:

a. Cheating is copying or the use of unauthorized aids or the intentional falsification or invention of information in any academic exercise.
b. Plagiarism is the act of presenting the ideas or words of another as one's own. Students are required to acknowledge and document the sources of ideas that they use in their written work.
c. Self-plagiarism is also a form of plagiarism. It is the presentation of the same work in more than one course without the permission of the instructors involved.
d. A student who knowingly helps another to commit an act of academic dishonesty is equally guilty.

Penalties are levied in relation to the degree of the relevant infraction. They range from requiring the student to re-do the piece of work, through failure on that piece of work, to failure in the course, and to dismissal from the university.

### Procedures Concerning Infractions of Academic Integrity (Academic)

a. An instructor who suspects a violation of academic integrity shall first attempt to determine if a potential violation exists. This determination shall involve a preliminary meeting between the instructor and student. If a determination is made by the instructor that the incident does not constitute a violation, no further action is initiated.
b. Where a potential violation is indicated, a meeting shall be convened normally within five working days with the student, instructor and Unit Head. This meeting is intended to present information to determine if an infraction has occurred. Both student and instructor may bring a witness/advocate. That advocate for the student may be an ASU representative. Each party will be allowed to submit written statements and speak to the allegation.
c. No later than five working days after the meeting the Unit Head shall offer their verdict on the case. Where a Unit Head determines that the evidence fails to support the claim of a violation, the case concludes with no further action.
d. Where it is determined that an infraction has occurred, the Head shall contact the Registrar's Office to determine if the student has former infractions in the Registry of Previous Infractions.
e. Where the Registry of Previous Infractions contains no more than one previous case, the Head shall determine a suitable penalty for the infraction. It is noted that in making this determination, the Head shall be guided by the twin interests of education and sanction. In cases where there are 2 or more previous infractions indicated, the Head shall send the relevant documentary evidence to the relevant Dean for the determination of the appropriate sanction.
f. The student has the right of appeal. Where the determination of sanction has been made at the level of the Unit Head, the appeal is made to the relevant Dean with the Unit Head and student present for the meeting. Where the sanction was determined at the Dean level, the appeal is to the Vice-President Academic with the Dean and student present for the meeting. The Unit Head (or Dean) and student may each have a witness/advocate (ASU representative is permitted for the student). The determination by the appeal body is final.
g. Notwithstanding (f), in the case of a penalty of expulsion from the University a student has the right to appeal the decision of the Vice-President Academic to the Senate Academic Discipline Appeals Committee. Students have the right to legal counsel when appearing before this committee.
h. In all cases, violations are to be recorded in the Registrar's Registry of Previous Infractions.
i. In the event that a Unit Head is the instructor, a designated Head will discharge the relevant duties. In the case where the instructor is a Dean, the VPA will designate a substitute Dean for the prescribed role.

## Grading System

The grade point average is the weighted sum of the grade points earned divided by the number of courses attempted. Courses with a notation of 'W' are not included in the GPA.

- The sessional grade point average (SGPA) refers to a particular session.
- The program grade point average is calculated on courses offered towards a degree program and is used to determine a students' eligibility to graduate. It does not appear on the official transcript.
- The cumulative grade point average (CGPA) is calculated on all courses taken and does appear on the official transcript.
- Only the most recent grade in repeated courses will be included in any GPA.

| Alpha grade | GPA value | Rating |
|---|---|---|
| A+ | 4.33 | |
| A | 4.00 | Excellent |
| A- | 3.67 | |
| B+ | 3.33 | |
| B | 3.00 | Good |
| B- | 2.67 | |
| C+ | 2.33 | |
| C | 2.00 | Average |
| C- | 1.67 | |

| | | |
|---|---|---|
| D+ | 1.33 | |
| D | 1.00 | Pass |
| D- | 0.67 | |
| F | 0 | Failure |
| W | | Withdrew |
| S | | Awaiting grade from special exam/incomplete |

Some courses have a Pass/Fail marking scheme. This is not counted in the GPA. Previous courses repeated are marked as duplicate. Only the result and credit hours of the most recent attempt is calculated in the GPA and towards the total of completed credit hours.

In cases where a faculty member uses a grading scheme out of 100 (%) to calculate a final letter grade, that information will be contained in the course syllabus and communicated to students.

**Grade Conversion Table for Courses that Use Numerics to Arrive at a Final Official Letter Grade**

| Alpha grade | Numeric Value |
|---|---|
| A+ | 90-100 |
| A | 85-89 |
| A- | 80-84 |
| B+ | 77-79 |
| B | 73-76 |
| B- | 70-72 |
| C+ | 67-69 |
| C | 63-66 |
| C- | 60-62 |
| D+ | 57-59 |
| D | 53-56 |
| D- | 50-52 |
| F | <50 |

## Course Assessment and Evaluation

**The Syllabus/Course Outline**

At the beginning of each course, instructors are required to indicate in writing the elements for the course, including tentative dates and values of all assignments, attendance requirements, and the value of examinations. Once a course is underway, major alterations to the syllabus/course outline can be made by the instructor providing they have the consent of registered students.

Students can expect to be assessed according to fair methods of evaluation and based on material clearly outlined in the syllabus. Instructors shall indicate clearly how students' marks will be calculated and how those marks will be used to form the aggregate grade for the course. Marks may be lost after proven incidents of academic integrity violations, as outlined in the Academic Integrity section of this Calendar.

No credit is given for a course unless all requirements have been completed.

**Scheduling of Tests/Major Assignments**

Written tests should normally be held during scheduled class times. However, in exceptional circumstances, such as large multi-section courses, scheduling written tests outside of class may be an option. When written tests are scheduled outside of class, the test dates and times must be announced in the syllabus at the start of term. The faculty member(s) scheduling the out-of-class test are responsible for accommodating all conflicts, providing students with an alternate time or date to write the test that resolves their conflicts. Tests may not be held during the last 6 hours of instructional activity in a term, with the exception of routine weekly, end-of-chapter, or laboratory tests, and oral examinations in the languages. No tests may be held on the study day(s) prior to the formal examination periods.

Tests and major assignments for summer courses are generally held or due on the last scheduled class.

**Mid-term Grades and Course Standing**

Five days before the last day to withdraw from a course without penalty, instructors are to inform their students of their course standing so that students can seek advice from their advisors if they feel it necessary. Instructors are to have available an indication of the relative standing of each student for the use of the Dean should such information be requested.

**Release of Grades to Students**

Instructors are requested not to give any information regarding mid-year or final grades to students. Grades are to be submitted to the Registrar's Office and are only available to students through Colleague Student Self-Service.

## Examinations

Scheduled examinations are held in December for Fall term courses and may be required in any two-term course. Scheduled examinations are held in April for Winter term and two-term courses. Examination schedules are posted in October and February.

Final examinations may be conducted only as formal scheduled examinations or as take-home examinations. Students are allowed the whole examination period to complete take-home examinations and must submit their papers no later than the day of the last scheduled examination.

**Special Examinations**
A student, who because of medical or other unavoidable circumstances is unable to write a required examination, may request a Special Examination.

A student who wishes to request a Special Examination must, within 48 hours of the end of the examination, report, or have a representative report, to the Registrar and the course instructor the intention to request a Special Examination (in writing if possible). Within one week of the end of the examination, the student must submit to the Registrar a written request for a special examination. This request must include an explanation of the circumstances that made it impossible for the student to write the regular examination and should be accompanied by relevant supporting documentation (such as medical reports if the request is based on a medical issue).

The Registrar will consult with the course instructor as to the legitimacy of the request. Should the Registrar and the course instructor agree that the student be allowed to write the final examination, the procedures for Setting and Conducting Special Exams shall be followed. Should the Registrar and the course instructor agree the student not be allowed to write the final examination, the Registrar shall communicate that decision to the student in writing, apprising the student of the right to appeal the decision. If the Registrar and course instructor are unable to reach a decision, the matter shall be referred to the relevant Dean to resolve. Should the Dean decide to not allow the student to write a special examination, the student retains the right to appeal.

Any such appeal is to be made in writing to the Admissions and Academic Standing Committee (Appeals) through the Chair within seven days of the student receiving the decision. The Committee shall convene within a reasonable length of time to consider the appeal, meeting individually with the student (should they wish), the Registrar, and the course instructor before rendering its decision in camera. The decision shall be communicated in writing to the student, Registrar and course instructor. Should the Committee decide to allow the Special Examination, the procedures for Setting and Conducting Special Exams shall be followed.

**Setting and Conducting Special Exams**
The responsibility for setting and conducting special examinations will lie with Departments and Schools. Special examinations should be completed as soon as possible and normally (i.e., wherever possible) by the end of January, immediately following December examinations and by the end of May immediately following April examinations.

**Re-Read Procedures**
Any request to re-read an examination paper (or its equivalent in a course using an alternative form of assessment) must reach the Registrar within 30 days after release of the final results.

All requests for a re-read will be directed by the Registrar to the Director/Head concerned for implementation. Re-reads will be conducted by the Director/Head of the unit involved and a second faculty member who has expertise in the subject area, after consultation with the original instructor. In the event that the Director/Head is the instructor, the Dean will designate a replacement to conduct the re-read.

Re-reads may be requested in any or all courses in which a student is registered without reference to class standing or the final grade assigned. A re-read of a mid-year examination (6h full-year course) will be granted only after consultation with the Head of the Department or Director of the School concerned.

A student who requests a re-read in a course forfeits the grade originally assigned.

Students have the right to review a written examination paper in the presence of the instructor.

## Regulation Interpretations and Academic Appeals

In the case of an inconsistency, the general academic regulations contained in this Calendar prevail over the regulations of Faculties, Schools, and Departments, and regulations of the Faculties over those of Departments. Interpretation of the regulations will be provided by a Dean or by the Registrar. Written appeals against the application of regulations may be made to the Admissions and Academic Standing Appeals Committee.

**Procedures for Complaints in Academic Matters**
A complainant should first attempt to resolve the matter with the instructor. If it cannot be resolved, the complaint, preferably in writing, must be presented to the appropriate Head of Department or Director of the School who will conduct an investigation and attempt a resolution. If the matter cannot be settled by the head/director, it shall be referred to the appropriate dean of faculty. Any complainant may at any time have the assistance of the Vice-President Academic of the Acadia Students' Union.

For procedures concerning academic integrity, please see the Academic Integrity section of this Calendar.

# PART VI: JUDICIAL POLICIES AND DISCIPLINE

The authority for Acadia University's judicial system derives from the power granted to the Board of Governors by the Province of Nova Scotia under the University's Act of Incorporation in 1891. These powers are exercised on behalf of the Board of Governors by the Executive Director, Student Services. The system itself is fundamentally informal, and the Judicial Board is staffed by students, faculty, members of the University's administration and Acadia Students' Union, none of whom are trained legal experts. Nevertheless, care has been taken to build into it the elements of natural justice, while at the same time, providing for the relatively speedy resolution of complaints. To this end, specific time limitations and procedures have been established, the option of a pre-hearing settlement rather than going to a full hearing exists, and provision is made for appeals of decisions rendered by the Judicial Board. All sanctions are imposed either by the Coordinator, Student Community Development through a pre-hearing settlement, or by the Judicial Board after it has conducted a full hearing.

- Sanctions imposed will, as closely as possible, reflect the logical consequences of the student's misbehavior. Although punitive measures may be taken, efforts will also be made to provide for sanctions which will be educative and developmental in nature.
- Students who are subject to charges placed through the RCMP may also be subject to a hearing under the University's judicial system. As well, the University reserves the right to impose sanctions.
- This statement of judicial policies and procedures does not limit the freedom of the University to press criminal charges in cases where this is deemed to be the most appropriate course of action.
- The University reserves the right to refuse application for residence accommodation, to cancel residence privileges during the year, and to reassign students to other rooms for reasons it deems appropriate.
- Not all matters have been delegated to the judicial system. Unless specifically referred to in this policy statement, matters or issues are not covered by such systems. However, the Board of Governors and the Executive Director, Student Services have the authority to deal with any matter in a manner that is outside the limits and procedures of the student judicial system when they deem it appropriate or necessary to do so.

Judicial policies are described in considerable detail in the ASU student handbook. Material on student discipline found in the University's Calendar, the ASU handbook and other University Department handbooks all constitute part of the formal contract between the University and the student. The official university judicial policy document is found on the university website under Student Services (https://studentservices.acadiau.ca/non-academic-judicial.html). A copy of this document can also be obtained from Student Services. For more information, please call (902) 585-1825.

# PART VII: UNDERGRADUATE PROGRAMS, DEGREE REQUIREMENTS, AND COURSES

Acadia offers programs of study leading to the following undergraduate credentials:

| | |
|---|---|
| BA | Bachelor of Arts |
| BAH | Bachelor of Arts with Honours |
| BAM | Bachelor of Arts in Music |
| BAMH | Bachelor of Arts in Music with Honours |
| BACS | Bachelor of Applied Computer Science |
| BASC | Bachelor of Applied Science |
| BBA | Bachelor of Business Administration |
| BBAH | Bachelor of Business Administration with Honours |
| BCD | Bachelor of Community Development |
| BCDH | Bachelor of Community Development with Honours |
| BCD ESST | Bachelor of Community Development with Environmental and Sustainability Studies |
| BCDH ESST | Bachelor of Community Development with Honours with Environmental and Sustainability Studies |
| BCS | Bachelor of Computer Science |
| BCSH | Bachelor of Computer Science with Honours |
| BED | Bachelor of Education |
| BKIN | Bachelor of Kinesiology |
| BKIH | Bachelor of Kinesiology with Honours |
| BM | Bachelor of Music |
| BMT | Bachelor of Music Therapy |
| BSC | Bachelor of Science |
| BSCH | Bachelor of Science with Honours |
| BSN | Bachelor of Science in Nutrition |
| BSNH | Bachelor of Science in Nutrition with Honours |
| BTH | Bachelor of Theology |
| CAS | Certificate in Applied Science |
| CCS | Certificate in Computer Science |
| CDL | Certificate in Democratic Leadership |
| CFP | Certificate in French Proficiency |
| CMAE | Certificate in Math Teaching (Grades 5-9) |
| CME | Certificate in Music Education (Pending MPHEC Approval) |
| CMT | Certificate in Music Therapy |

## Undergraduate Degree Requirements

### Faculty of Arts

Office of the Dean of Arts
Beveridge Arts Centre, Room 224/225
http://arts.acadiau.ca/

**Dean**
Dr. David Duke

**Assistant Dean, Interdisciplinary and Language Programs**
Dr. Kate Ashley

**Heads and Directors**

| | |
|---|---|
| Economics | Dr. Andrew Davis |
| English and Theatre | Dr. Kait Pinder |
| History and Classics | Dr. James Sedgwick |
| Languages and Literatures | Dr. Michael Dennis, Acting Head |
| Philosophy | Dr. Marc Ramsay |
| Politics | Dr. Can Mutlu |
| Psychology | Dr. Randy Lynn Newman |
| Sociology | Dr. Liam Swiss |

**Degree Program Coordinators**

| | |
|---|---|
| Canadian Studies | Dr. Stephen Henderson |
| Environmental & Sustainability Studies | Dr. Alice Cohen |
| Law and Society | Dr. Erin Crandall |
| Women's and Gender Studies | Dr. Anne Quéma |

**Faculty of Arts Credentials**

| | |
|---|---|
| BA | Bachelor of Arts with Major |
| BAH | Bachelor of Arts with Honours |
| CDL | Certificate in Democratic Leadership |
| CFP | Certificate in French Proficiency |
| MA | Master of Arts |

## Bachelor of Arts Degree Requirements

### The Arts Core

All students in a Bachelor of Arts program are required to complete 30 credit hours (30h) as follows:

1. 6h in English at the 1000-level. (Not ENGL 1313/ENGL 1323).
2. 6h in a single language other than English. Students whose first language is not English or who can demonstrate a high level of competence in a language other than English may substitute a second 6h in English.
3. 6h in Economics, Law & Society, Politics, Sociology or Women's and Gender Studies.
4. 6h in Art (not 2013, 2023, 3013, 3023), Classics, Comparative Religion, History, Law & Society, Philosophy, Music (not applied, vocal or instrumental methods, or practical studies) or Women's and Gender Studies.
5. 6h in the Faculty of Pure and Applied Science.

- No more than 6h in Law & Society or WGST can be counted toward the Arts Core.

### Bachelor of Arts with Honours

All Bachelor of Arts with Honours degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. The Arts Core (30h).
2. A minimum of 48h in one Arts subject, Mathematics, or Psychology, including at departmental option a thesis, to satisfy honours major requirements. (Departments may require more than 48h.)
3. A minimum of 24h to satisfy minor requirements in a single subject or in multidisciplinary studies. Only 6h at the 1000-level may be offered towards minor requirements in one subject.
4. Electives to complete a total of 120h.
5. 96h must be taken in the Faculties of Arts and Pure and Applied Science.

- Each course offered towards the major must be completed with a minimum grade of B-.
- Either the major or the minor must be in an arts subject.
- In exceptional cases, students may be permitted by the Dean of Arts to offer Honours in other science subjects.
- A program GPA of 3.00 is required in order to declare Honours.
- A program GPA of 3.00 is required in order to be eligible to graduate.

### Bachelor of Arts with Honours – Double Major

All Bachelor of Arts with Honours – Double Major degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. The Arts Core (30h).
2. A minimum of 48h in one Arts subject, Mathematics, or Psychology, including at departmental option a thesis, to satisfy honours major requirements. (Departments may require more than 48h.)
3. A minimum of 36h in one subject to satisfy second major requirements. (Departments may require more than 36h.)
4. Elective courses to complete a total of 120h.

- Except where the second major is taken in the Faculty of Professional Studies, 96h must be taken in the Faculties of Arts and Pure and Applied Science.
- Any subject may be offered as the second major.
- Courses offered towards the first major must be completed with a minimum grade of B-. At least one of the majors must be in an Arts subject.
- In exceptional cases, students may be permitted by the Dean of Arts to offer Honours in other science subjects.
- A program GPA of 3.00 is required in order to declare honours.
- A program GPA of 3.00 is required in order to be eligible to graduate.

### Bachelor of Arts with Major

All Bachelor of Arts with Major degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. The Arts Core (30h).
2. A minimum of 42h in one arts subject, Mathematics, or Psychology, to satisfy major requirements. (Departments may require more than 42h.)
3. A minimum of 24h to satisfy minor requirements in a single subject or in multidisciplinary studies. Only 6h at the 1000-level

may be offered towards minor requirements in one subject.
4. Elective courses to complete a total of 120h.
5. 96h must be taken in the faculties of Arts and Pure and Applied Science.

- 84h, including those offered to satisfy the major and minor requirements, must be completed with a minimum grade of C-.
- Either the Major or the Minor must be in an Arts subject. In exceptional cases, students may be permitted by the Dean of arts to offer a major in other science subjects.
- A program GPA of 2.00 is required in order to be eligible to graduate.

### Bachelor of Arts – Double Major

All Bachelor of Arts with Major degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. The Arts Core (30h).
2. A minimum of 42h in one arts subject, Mathematics, or Psychology, to satisfy first major requirements. (Departments may require more than 42h).
3. A minimum of 36h in one subject to satisfy second major requirements. (Departments may require more than 36h).
4. Elective courses to complete a total of 120h.
5. Except where the second major is taken in the Faculty of Professional Studies, 96h must be taken in the Faculties of Arts and Pure and Applied Science.

- Any subject may be offered for the second major. The second Major may be from any one of the three Faculties.
- Courses offered to satisfy each of the major requirements must be completed with a minimum grade of C-. In any case, at least 84h must be completed with a minimum grade of C-.
- A program GPA of 2.00 is required in order to be eligible to graduate.

### Minors

All BA students are required to complete a minor of 24 credit hours (24h) in a single subject or multidisciplinary area except Music and Theatre majors. Multidisciplinary minors offer an alternative to completing the minor requirements for a B.A. in a single discipline. Students interested in studying a topic from a variety of disciplinary perspectives should consult the list of Multidisciplinary Minors available through the Faculty of Arts. These include American Studies; Atlantic Canadian Studies; Canadian Studies; Comparative Religion; Cultural Studies; Diaspora Studies; International Development Studies; Environmental and Sustainability Studies; Ethnocultural Diversity Studies; Health Sciences and Humanities; Material and Visual Culture; Science, Technology and Ethics; Women's and Gender Studies; and World Literatures. Full details and course lists may be found on the Faculty of Arts website: http://arts.acadiau.ca/.

### Bachelor of Arts Applied Option

Students may complete the Applied Option as described in the degree requirements of the Psychology section of this Calendar.

### Co-operative Education in the Arts

Co-op students are required to complete COOP 1902, COOP 2902, COOP 3902 (or COOP 3706 or COOP 3806) to complete the Co-op Option. Co-op students who complete COOP 3902 have the option of completing COOP 4900 with their degree.

Co-op is available to Arts students majoring in Economics, English, Environmental and Sustainability Studies, French, History, German, Law and Society, Mathematics and Statistics, Politics, Psychology, Sociology, Spanish, and Women's and Gender Studies. Visit http://co-op.acadiau.ca/ for more information.

## Faculty of Professional Studies

Office of the Dean of Professional Studies
Willett House B
http://professionalstudies.acadiau.ca/

**Dean**
Dr. Corinne Haigh

**Heads and Directors**

| | |
|---|---|
| Department of Community Development | Dr. John Colton |
| Fred C. Manning School of Business | Dr. Edith Callaghan, Acting Director |
| School of Education | TBD |
| School of Kinesiology | Dr. Darren Kruisselbrink |
| School of Music | Dr. Christianne Rushton |
| School of Nursing | Dr. Cassel Busse |

**Faculty of Professional Studies Programs**

| | |
|---|---|
| BAM | Bachelor of Arts in Music |
| BAMH | Bachelor of Arts in Music with Honours |
| BBA | Bachelor of Business Administration |
| BBAH | Bachelor of Business Administration with Honours |

| | |
|---|---|
| BBA with Major | Bachelor of Business Administration with Major |
| BCD | Bachelor of Community Development |
| BCD ESST | Bachelor of Community Development with Environmental and Sustainability Studies |
| BCDH | Bachelor of Community Development with Honours |
| BCDH ESST | Bachelor of Community Development with Honours with Environmental and Sustainability Studies |
| BED | Bachelor of Education |
| BKIN | Bachelor of Kinesiology |
| BKIH | Bachelor of Kinesiology with Honours |
| BM | Bachelor of Music |
| BMT | Bachelor of Music Therapy |
| CME | Certificate in Music Education (Pending MPHEC Approval) |
| CMT | Certificate in Music Therapy |
| MAK | Master of Applied Kinesiology |
| MCD | Master of Community Development |
| MED | Master of Education |
| PhD | Doctor of Educational Studies |

Degree requirements for each of the above programs are outlined in detail in the sections that follow.

### Co-operative Education in Professional Studies

Co-op students are required to complete COOP 1902, COOP 2902, COOP 3902 (or COOP 3706 or COOP 3806) to complete the Co-op Option. Co-op students who complete COOP 3902 have the option of completing COOP 4900 with their degree.

The Co-op Option is available to Business Administration students. Areas of concentration include: Accounting, Business Technology Management, Employment Relations, Entrepreneurship and Innovation, Finance and Marketing. The Co-op Option is also available to Community Development students with or without Environmental and Sustainability Studies. Visit http://co-op.acadiau.ca for more information.

## Faculty of Pure and Applied Science

Office of the Dean of Pure and Applied Science
Huggins Science Hall, Room 304
http://science.acadiau.ca/

**Dean of Pure and Applied Science**
Dr. Jeff Hooper

**Assistant Dean of Pure and Applied Science, Applied Bioscience Programs**
Dr. Matthew Lukeman

**Assistant Dean of Pure and Applied Science, Equity, Diversity, and Inclusion**
Dr. Juan Carlos López

**Heads and Directors**

| | |
|---|---|
| Biology | Dr. Glenys Gibson |
| Chemistry | Dr. Jeff Banks |
| Computer Science | Dr. Darcy Benoit |
| Engineering | Dr. Scott Bishop |
| Earth and Environmental Science | Dr. Nelson O'Driscoll |
| Mathematics and Statistics | Dr. Richard Karsten |
| Nutrition and Dietetics | Dr. Liesel Carlsson, Acting Director |
| Physics | Anna Kiefte |
| Psychology | Dr. Randy Lynn Newman |

**Science Programs Offered**

| | |
|---|---|
| BACS | Bachelor of Applied Computer Science |
| BASC | Bachelor of Applied Science |
| BCS | Bachelor of Computer Science |
| BCSH | Bachelor of Computer Science with Honours |
| BSC | Bachelor of Science |
| BSCH | Bachelor of Science with Honours |
| BSN | Bachelor of Science in Nutrition |
| BSNH | Bachelor of Science in Nutrition with Honours |
| CAS | Certificate in Applied Science |
| CCS | Certificate in Computer Science |
| CMAE | Certificate in Mathematics Teaching (Grades 5 to 9) |
| MSC | Master of Science |

## Bachelor of Science Degree Requirements

### Bachelor of Science with Honours

All Bachelor of Science with Honours degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
2. 6h from the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103) or IDST 3203.
3. 6h from either the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103) or from the Faculty of Professional Studies or 3h from each.
4. 6h in Mathematics and Statistics.
5. A minimum of 72h additional Science subjects, including those offered to satisfy Major requirements, chosen from the departments of Biology, Chemistry, Earth and Environmental Science, Mathematics and Statistics, Physics, Psychology or the School of Computer Science. For Economics majors all Economics courses will count as though they were science courses.
6. A Major is a minimum of 48h with a Minor of 18h in another subject completed with a minimum grade of C-, or of 36h with two Minors of 18h each in two different subjects. Minors may be in any subject area but must include at least 6h at the 2000-level.
7. A minimum of 24h electives.
8. A Major consists of at least 48h in one subject area, completed with a grade of B- or greater; at departmental option 6h to 9h of this may be a thesis. (The departments of Biology, Chemistry, Earth and Environmental Science, and Psychology and the School of Computer Science require a thesis).
9. 120h are required in all. At least 42h hours must not be in the Major subject.
10. A minimum of 120h must be completed with a program GPA of 3.00 or better.

### Bachelor of Science with Honours and Second Major

All Bachelor of Science with Honours degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies (6h).
2. 3h from the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103).
3. 3h from the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103) or IDST 3203.
4. 6h from either the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103) or the Faculty of Professional Studies or 3h from each.
5. 6h in Mathematics and Statistics.
6. A minimum of 48h in one science subject or 48h in Economics completed with a grade of B- or greater, including at departmental option a thesis, to satisfy honours Major requirements.
7. A minimum of 24h completed with a grade of C- or greater in one subject chosen in consultation with the Department offering the first Major to satisfy second Major requirements. Some departments require more than 30h for a second Major. This requirement replaces the need for a Minor.
8. 78h in science subjects including those offered to satisfy Major requirements. If the second Major is in a non-science subject, courses taken in this Major will count as though they were science courses. For Economics majors all Economics courses will count as though they were science courses.
9. 120h are required in all.
10. A minimum of 120h must be completed with a program GPA of 3.00 or better.

### Bachelor of Science with Major

All Bachelor of Science with Major degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies (6h).
2. 6h from the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103).
3. 6h from either the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103) or the Faculty of Professional Studies or 3h from each.
4. 6h in Mathematics and Statistics.
5. 72h additional in subjects in the Faculty of Pure and Applied Science. For Economics majors all Economics courses will count as though they were science courses.
6. 18h in another subject to satisfy the Minor requirement completed with a minimum grade of C-.
7. 24h additional elective hours.
8. 120h are required in all. Of these at least 48h must not be in the Major subject. 72h, including those offered to fulfill Major and Minor requirements must be completed with a minimum grade of C-.
9. A minimum program GPA of 2.00 is required to be eligible to graduate.

The Bachelor of Science (Major) is offered in the departments of Biology, Chemistry, Earth and Environmental Science, Economics, Mathematics and Statistics, Physics, and Psychology.

### Bachelor of Science with Double Major

All Bachelor of Science with Double major degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
2. 6h from the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103).
3. 6h from either the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103) or the Faculty of Professional Studies or 3h from each.
4. 6h in Mathematics and Statistics.
5. 72h additional in science subjects including those offered to satisfy Major requirements. The first Major is a minimum of 36h in one science subject or 36h in Economics. The second Major is a minimum of 30h in another subject chosen in consultation with the department offering the first Major. Some departments require more than 30h for a second Major. If the second Major is in a non-science subject, courses taken in this Major will count as though they were science courses. For Economics majors all Economics courses will count as though they were science courses. The second major removes the requirement for a Minor.
6. 24h additional chosen in consultation with the departments in which the first and second Majors are taken.
7. 120h are required in all. 72h including each offered to fulfill double Major requirements must be completed with a minimum grade of C-.
8. A minimum program GPA of 2.00 is required to be eligible to graduate.

The department that offers the first Major is the student's advisor and administers the student's program. The second Major may be from any one of the three faculties.

### Bachelor of Science – Foundation Option (42/18/18/18 Major)

All Bachelor of Science Foundation Option degrees require the completion of a minimum of 120 credit hours (120h) as follows:

1. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies (6h).
2. 6h Social Studies that relate to Canadian Studies, History, Geography, Economics, Political Science or Philosophy.
3. 6h from either the Faculty of Arts (not ECON 2613/ECON 2623 or SOCI 3103) or the Faculty of Professional Studies or 3h from each.
4. 18h in each of Biology, Chemistry, Mathematics and Statistics, and Physics to be chosen in consultation with the department.
5. 24h additional in one of Biology, Chemistry, Mathematics and Statistics, or Physics selected to fulfill the Major requirements.
6. 6h electives.
7. 120h are required in all. Courses offered to fulfill Major and Minor requirements must be completed with a minimum grade of C-.
8. A minimum program GPA of 2.00 is required to graduate.

### Minors

All BSc students are required to complete a minor as part of their degree. Minors in the faculty of Pure and Applied Science range from 18-27 credit hours (18-27h). Students are encouraged to plan their minors with the advice of an Academic Advisor. Multidisciplinary Minors: In place of a minor in a single subject, BSc. students may complete an 18h-24 credit hour (18-24h) multidisciplinary minor, subject to specific program requirements. Students interested in this option should discuss it with their academic advisor. Multidisciplinary minors include: American Studies; Atlantic Canadian Studies; Canadian Studies; Comparative Religion; Cultural Studies; Diaspora Studies; International Development Studies; Environmental Studies; Health Sciences and Humanities; Law and Society; Science, Technology and Ethics; Women’s and Gender Studies; and World Literatures. Full details and course lists may be found on the Faculty of Pure and Applied Science website.

### Actuarial Science Option

Students may complete the Actuarial Science Option as described in the degree requirements in the Mathematics and Statistics section of this Calendar.

### Biochemistry Option

Students may complete the Biochemistry option in conjunction with the Bachelor of Science with Honours, Major, or Double Major.

Option courses:

1. BIOL 1113 and BIOL 1123.
2. CHEM 1013 and CHEM 1023 or CHEM 1113 and CHEM 1123.
3. MATH 1013/1023 or MATH 1253/MATH 2243 or MATH 1253/MATH 2253 or MATH 2233/MATH 2243.
4. BIOL 2013.
5. CHEM 2513 and CHEM 2713.
6. 18h from the following (minimum 6h must be from Biology and a minimum 6h must be from Chemistry): CHEM 2533, CHEM 3513, CHEM 3523, CHEM 3723, CHEM 4513, CHEM 4523, CHEM 4723, BIOL 3063, BIOL 3153, BIOL 3553, BIOL 3613, BIOL 3883, BIOL 3553, NUTR 3023.

### Data Science Option
Students may complete the Data Sciences option in conjunction with the Bachelor of Science and Bachelor of Science with Honours.

Option courses:

1. 6h from MATH 1313, MATH 1323, MATH 1333, MATH 1413, or 6h from MATH 1253, MATH 2213, MATH 2223, MATH 2243, MATH 2253.
2. COMP 1113, COMP 1123, COMP 2113.

And one of

3a. MATH 3233, MATH 3293, plus 6h from MATH 3283, MATH 3603, MATH 3633, MATH 4223, MATH 4233.
3b. COMP 3503, plus 9h from COMP 2853, COMP 3753, COMP 3923, one of which may be substituted for another related course with permission of the School of Computer Science).
3c. MATH 3233, COMP 3503, 3h from MATH 3283, MATH 3603, MATH 3633, MATH 4223, MATH 4233, and 3h from COMP 2853, COMP 3573, COMP 3923.

### Health Sciences Option
Students may complete the Health Sciences option in conjunction with the Bachelor of Science with Major, the Bachelor of Science with Honours, the Bachelor of Science in Nutrition (without dietetic option), the Bachelor of Science in Nutrition with Honours (without dietetic option), the Bachelor of Kinesiology or the Bachelor of Kinesiology with Honours.

Option courses:

1. BIOL 1113 and BIOL 1123 or BIOL 1813 and BIOL 1823 or BIOL 1853 and BIOL 1863 or BIOL 2813 and BIOL 2823.
2. CHEM 1013 and CHEM 1023 or CHEM 1113 and CHEM 1123.
3. MATH 1013/MATH 1023 or MATH 1213/MATH 1223 or MATH 1253/MATH 2243 or MATH 1253/MATH 2253 or MATH 2233/MATH 2243.
4. PHYS 1013 and PHYS 1023 or PHYS 1053 and PHYS 1063.
5. PSYC 1013 and PSYC 1023.
6. SOCI 1033.
7. 12h of electives from CHEM 2513, CHEM 2713; PHIL 2713 or HIST 2613; PSYC 2113, PSYC 2123, PSYC 2133, PSYC 2153; SOCI 2343, SOCI 3263, SOCI 3643, SOCI 3733, SOCI 4223, SOCI 4263; NUTR 1313, NUTR 1323, NUTR 3513, NUTR 3523; and KINE 1413, KINE 2033, KINE 2413, KINE 2423.

Students interested in a career in Health Science are encouraged to consult with the Health Sciences Advisor (healthscienceadvisor@acadiau.ca) in planning their degrees.

### Bachelor of Arts Applied Option
Students may complete the Applied Option as described in the degree requirements of the Psychology section of this Calendar.

### Neuroscience Option
Students may complete the Neuroscience Option as described in the degree requirements of the Psychology section of this Calendar.

### Science and Business of Beverage Option
Students may complete the Science and Business of Beverage Option in conjunction with the Bachelor of Science in Biology or Chemistry with Honours, Major, or Double Major.

Option courses:

1. BIOL 2013 and BIOL 2053.
2. CHEM 2713 and CHEM 2813.
3. BIOT 2013 and BIOT 3413.
4. 3h from BIOT 3443 (BIOL 3573)*, BIOT 3453 (NUTR 4223)*, BIOT 3463 (CHEM 3823)*, BIOT 3473 (PHIL 2713)*, BIOT 3483 (BIOL 3613)*.
5. BIOT 3433 (BUSI 3913).
6. 9h from BUSI 1013, BUSI 1703, COMM 1213, BUSI 2423, BUSI 2773, BUSI 2993, BUSI 3613, BUSI 4663.
7. 3h of electives from BIOL 3243, BIOL 3573, BIOL 3663, BIOL 3883, CHEM 3823, CHEM 3143, CHEM 3523, CHEM3713, CHEM 3723, CHEM 4733, CHEM 4773, GEOL 3723, GEOL 5743.
8. Enrolment in the Co-operative Education program is mandatory.

*Cross-listed courses

### Science and Business of Biopharma Option
Students may complete the Science and Business of Biopharma Option in conjunction with the Bachelor of Science in Biology or Chemistry with Honours, Major, or Double Major.

Option courses:

1. BIOL 2013 and BIOL 2053.
2. CHEM 2713 and CHEM 2813.
3. BIOT 2013 and BIOT 3423.

4. 3h from BIOT 3443 (BIOL 3573)*, BIOT 3453 (NUTR 4223)*, BIOT 3463 (CHEM 3823)*, BIOT 3473 (PHIL 2713)*, BIOT 3483 (BIOL 3613)*.
5. 12h from BUSI 1013, BUSI 1703, COMM 1213, BUSI 2423, BUSI 2773, BUSI 2993, BUSI 3614, BIOT 3433 (BUSI 3913), BUSI 4663.
6. 3h of electives from BIOL 3243, BIOL 3573, BIOL 3663, BIOL 3883, CHEM 3823, CHEM 3143, CHEM 3523, CHEM3713, CHEM 3723, CHEM 4733, CHEM 4773.
7. Enrolment in the Co-operative Education program is mandatory.

*Cross-listed courses

### Co-operative Education in Science

Co-op students are required to complete COOP 1902, COOP 2902, COOP 3902 (or COOP 3706 or COOP 3806) to complete the Co-op Option. Co-op students who complete COOP 3902 have the option of completing COOP 4900 with their degree.

The Co-op Option is available to Science students majoring in Biology, Chemistry, Computer Science, Economics, Environmental Science, Environmental Geoscience, Geology, Mathematics and Statistics, Nutrition, Physics, and Psychology. Visit http://co-op.acadiau.ca/ for more information.

## Faculty of Theology

Acadia Divinity College
Main Office: (902) 585-2210; Toll-Free: 1 (866) 875-8975; Registrar: (902) 608-7080; Student Services: (902) 585-2216
http://www.acadiadiv.ca

**President**
Dr. Anna M. Robbins

**Associate Dean**
Dr. H. Daniel Zacharias

**Faculty of Theology Programs**

| | |
|---|---|
| BTH | Bachelor of Theology |
| MAT | Master of Arts (Theology) |
| MDI | Master of Divinity |
| DMI | Doctor of Ministry |

### Minor in Theological Studies

Acadia undergraduate students may choose to minor in Theological Studies. Students pursuing a minor in Theology must complete a minimum of 18 credit hours, and no more than 24 credit hours. Students must be in good academic standing (CGPA 2.0) to declare a minor. Students can declare the minor at any time, but should do so before their third year to ensure appropriate course selection and program plans.

Courses can be chosen from:

| Biblical Studies |
|---|
| BIBL 2000 and 3000 level courses |
| GREE 3000 level courses |
| HEBR 3000 level courses |
| Christian Thought |
| CHUR 2000, 3000, and 4000 level courses |
| THEO 2000, 3000, and 4000 level courses |

For advice on course selection, students may wish to consult the ADC Registrar or the ADC Director of Undergraduate Studies.

## Undergraduate Programs

This section provides descriptions of all Undergraduate programs at Acadia, ordered alphabetically, including those that are interdisciplinary and multidisciplinary.

## Art

Office of the Dean of Arts; Beveridge Arts Centre
http://arts.acadiau.ca/

Program Offered: Minor

### MINOR IN ART

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

### Cross-Listed Courses

The following courses can be counted towards the Minor in Art: CLAS 2013, CLAS 2023, IDST 2813, IDST 2823, PHIL 2103

## American Studies

Office of the Dean of Arts; Beveridge Arts Centre
Coordinator: Dr. Lisa Narbeshuber (lisa.narbeshuber@acadiau.ca)

Program Offered: Minor

### MINOR IN AMERICAN STUDIES

Multidisciplinary minors offer an alternative to completing the minor requirements for a program in a single discipline. The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a multidisciplinary minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in American studies requires the completion of HIST 2303 and HIST 2313 as well as the requisite number of credit hours for your program from the list of courses below. No more than 12h can be in a single discipline. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted towards credit in the American Studies Minor: ART 2313, CREL 2533, ENGL 2683, ENGL 2693, ENGL 3553, ENGL 3563, ENGL 4233, ENGL 4313, ENGL 4323, HIST 2303, HIST 2313, HIST 2513, HIST 3323, HIST 3433, HIST 3493, HIST 3513, HIST 3553, HIST 3653, HIST 4323, POLS 3493.

## Applied Bioscience

Faculty of Pure and Applied Science, Faculty of Professional Studies
https://www2.acadiau.ca/academics/undergraduate/bioscience.html

Programs Offered**:** Bachelor of Science in Applied Bioscience

Applied Bioscience is a multidisciplinary program that provides a solid foundation in biology and chemistry, and includes a business minor and co-op experience. This highly experiential program prepares students for careers in the life sciences sector by emphasizing professional skills, business understanding, and hands-on work experience.

### BACHELOR OF SCIENCE IN APPLIED BIOSCIENCE (SCIENCE AND BUSINESS OF BIOPHARMA)

**Graduation Requirements**

In addition to the following program requirements, a minimum program GPA of 2.5 is required to graduate.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. All of the following (27h): BIOL 1113, BIOL 1123, BIOL 2013, BIOL 2053, CHEM 1013 or CHEM 1113, CHEM 1023 or CHEM 1123, CHEM 2513, CHEM 2713, CHEM 2813.
2. All of the following (18h): BIOT 2013, BIOT 3423, BIOT 3443 or BIOL 3573, BIOT 3463 or CHEM 3823, BIOT 3473 or PHIL 2713, BIOT 3483 or BIOL 3613.
3. 6h MATH 1253 and MATH 2243, each completed with a minimum grade of C.
4. 15h from BIOL 3063, BIOL 3123, BIOL 3173, BIOL 3383, BIOL 3553, BIOL 3573, BIOL 3613, BIOL 3883, BIOL 4673, CHEM 2533, CHEM 3143, CHEM 3513, CHEM 3523, CHEM 3723, CHEM 4773, COMP 3503.
5. 18h from BUSI 1013, BUSI 1703, COMM 1213, BUSI 2423, BUSI 2773, BUSI 2993, BUSI 3613, BUSI 4663.
6. 6h from COOP 1902, COOP 2902, COOP 3902.

7. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies
8. 6h from the Faculty of Arts (not ECON 2613, ECON 2623, SOCI 3103).
9. 18h university electives.

- Note: Requirements 1 through 6 must be completed with a minimum grade of C-.

### BACHELOR OF SCIENCE IN APPLIED BIOSCIENCE (SCIENCE AND BUSINESS OF BEVERAGE)

**Graduation Requirements**

In addition to the following program requirements, a minimum program GPA of 2.5 is required to graduate.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. All of the following (27h): BIOL 1113, BIOL 1123, BIOL 2013, BIOL 2053, CHEM 1013 or CHEM 1113, CHEM 1023 or CHEM 1123, CHEM 2513, CHEM 2713, CHEM 2813.
2. All of the following (15h): BIOT 2013, BIOT 3413, BIOT 3433 or BUSI 3343, BIOT 3443 or BIOL 3573, BIOT 3453 or NUTR 4223.
3. 6h from MATH 1253 and MATH 2243, each completed with a minimum grade of C.
4. 21h from BIOL 3243, BIOL 3383, BIOL 3573, BIOL 3663, BIOL 3883, BIOL 4673, CHEM 2533, CHEM 3143, CHEM 3723, CHEM 4733, CHEM 4773, GEOL 3723, NUTR 4103.
5. 15h from BUSI 1013, BUSI 1703, COMM 1213, BUSI 2423, BUSI 2773, BUSI 2993, BUSI 3613, BUSI 4663.
6. 6h from COOP 1902, COOP 2902, COOP 3902.
7. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
8. 6h from the Faculty of Arts.
9. 18h university electives.

- Note: Requirements 1 through 6 must be completed with a minimum grade of C-.

## Applied Science

Ivan Curry School of Engineering; Carnegie Hall
Ph: (902) 585-1206; Fax: (902) 585-1067; http://engineering.acadiau.ca/

Programs Offered**:** Bachelor of Applied Science (BASc), Certificate in Applied Science (CAS), Combination BASc/CAS

**The Bachelor of Engineering Degree (BEng)**

The Bachelor of Engineering degree requires a minimum of four years to complete and is delivered through a cooperative arrangement with Dalhousie University. The joint four-year BEng degree program offered through this arrangement is fully accredited by the Canadian Council of Professional Engineers and are completed in two parts. A student normally spends, as a minimum, two years at Acadia before transferring to Dalhousie to complete the program. Upon completion of the Acadia portion of the program, the student is awarded our Certificate in Applied Science (CAS), which guarantees admission to Dalhousie with full transfer of credits to complete the program. Students may elect to attend engineering schools other than Dalhousie after completing the CAS; in such cases, admission at the alternative university is considered on an individual basis.

The three-year Bachelor of Applied Science degree (BASc) awarded by Acadia consists of 30 courses; it is not an accredited engineering degree but offers students a very liberal framework through which to pursue studies in the Applied Sciences and Engineering.

The two-year Certificate in Applied Science (CAS) awarded by Acadia consists of 23 courses that are completed prior to admission at Dalhousie for the completion of the BEng degree.

The three-year combination BASc/CAS program provides students the flexibility of the BASc while completing the required courses for the CAS at a reduced workload. The extra year of study at Acadia can be used to further develop studies in a particular area of interest or gain exposure to a broad spectrum of elective topics.

The engineering disciplines supported at Acadia include Chemical, Civil, Electrical, Computer, Environmental, Industrial, and Mechanical Engineering. The first year of study in either program is common for all disciplines at Acadia. Students in the CAS program only are expected to select one of the seven engineering disciplines available as they enter their second year of study. Students pursuing the combined BASc/CAS program may delay discipline choice until after the second year of study.

The CAS can also be completed as part of a four-year Bachelor of Science (BSc) degree at Acadia with various major areas of study including Biology, Chemistry, Computer Science, Earth & Environmental Science, Mathematics, Nutrition, Physics and Psychology. Students interested in this option are urged to contact both the School of Engineering and the science department involved to arrange an appropriate program of studies.

## BACHELOR OF APPLIED SCIENCE

**Graduation Requirements**

In addition to the following program requirements, a minimum program GPA of 2.00 is required to graduate with the BASc.

**Program Requirements**

Students must complete a minimum of 90 credit hours (90h) as follows:

- 33h Applied Science.
- 18h Mathematics in consultation with the School of Engineering and the Department of Mathematics and Statistics.
- 18h from the Faculty of Pure and Applied Science in topics other than Mathematics or Applied Science, with 6h at the 2000-level or higher.
- 15h outside of the Faculty of Pure and Applied Science.
- 6h from Business, Economics or the Faculty of Pure and Applied Science.

## CERTIFICATE IN APPLIED SCIENCE

**Graduation Requirements**

In addition to the following program requirements, a minimum program GPA of 2.00 is required to graduate with the CAS.

**Program Requirements**

Students must complete a minimum of 69 credit hours (69h) as follows:

- All of the following (54h): APSC 1073, APSC 1113, APSC 1223, APSC 1413, APSC 2213, APSC 2113, APSC 2413, APSC 2683, MATH 1013, MATH 1023, MATH 1323, MATH 2213, MATH 2723, MATH 2753, PHYS 1013, PHYS 1023, CHEM 1013, CHEM 1023.
- 6h Humanities or Social Science. Courses transferred for credit from high school (e.g., AP and IB courses) and courses offered through distance learning may not be used to fulfill this requirement.
- 9h at the direction of the School of Engineering.

Please note: Courses for 2 and 3 above should be selected to meet requirements of the Canadian Engineering Accreditation Board and the chosen engineering discipline. They are normally completed in the second or subsequent year of the program. Students are advised to consult with the School of Engineering when making their course selection.

# Atlantic Canadian Studies

Office of the Dean of Arts; Beveridge Arts Centre
Coordinator: Dr. Stephen Henderson (stephen.henderson@acadiau.ca)

Program Offered**:** Minor

Atlantic Canadian Studies is a multidisciplinary program highlighting various perspectives on Atlantic Canadian society – its history, political and legal systems, languages and cultures, for example. Students are challenged to investigate Atlantic Canada from the perspectives of disciplines in the Humanities (Art, English & Theatre, French, History) and the Social Sciences (Economics, Politics, Sociology) to deepen their understanding of current social, cultural and political trends in Atlantic Canada and their historical roots.

## MINOR IN ATLANTIC CANADIAN STUDIES

Multidisciplinary minors offer an alternative to completing the minor requirements for a program in a single discipline. The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a multidisciplinary minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in Atlantic Canadian Studies requires the completion HIST 2343 and HIST 2353 as well as the requisite number of credit hours from the list of courses below. No more than 12h presented for the minor can be in a single discipline. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted towards credit in the Atlantic Canadian Studies Minor: ENGL 3503, ENGL 3513, ENGL 4253, FRAN 3513, FRAN 3523, HIST 1913, HIST 2343, HIST 2353, HIST 2603, HIST 2733, HIST 3363, IDST 1213, IDST 1223, IDST 3213, IDST 3613, POLS 4203, SOCI 2353, SOCI 3433.

# Biology

Department of Biology; Biology Building
Ph. (902) 585-1334; Fax: (902) 585-1059; http://biology.acadiau.ca/

Programs Offered: Bachelor of Science with Honours (BScH), Bachelor of Science (BSc), Minor

## THE BIOLOGY CORE (15 credit hours)

All Biology programs require students to complete all of the following 15 credit hours (15h): BIOL 1113, BIOL 1123, BIOL 2013, (9h), and two from BIOL 2033, BIOL 2043, BIOL 2053, BIOL 2073 (6h).

## HONOURS IN BIOLOGY

**Graduation Requirements**

In addition to the following program requirements, students must also satisfy the Bachelor of Science with Honours requirements as outlined in the Faculty of Pure and Applied Science section of this Calendar. In addition, all students will write and defend a thesis (BIOL 407T/BIOL 408T) during the fourth year of study.

**Program Requirements**

Students must complete a minimum of 57 credit hours (57h) in the Honours program as follows:

1. The Biology Core (15h), completed with a minimum grade of B- in all courses.
2. BIOL 4023 and BIOL 407T/BIOL 408T, each completed with a minimum grade of B-.
3. 21h additional BIOL courses at the 3000/4000-level, each completed with a minimum grade of B-.
4. MATH 1253/MATH 2243 or MATH 1253/MATH 2253 or MATH 2233/MATH 2243, each completed with a minimum grade of C-.
5. CHEM 1013 and CHEM 1023, each completed with a minimum grade of C-.

## MAJOR IN BIOLOGY

**Graduation Requirements**

In addition to the following program requirements, students must also satisfy the Bachelor of Science with Major requirements as outlined in the Faculty of Pure and Applied Science section in this Calendar.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) in the Major as follows:

1. The Biology Core (15h), each completed with a minimum grade of C-.
2. 27h additional BIOL, (21h of which are to be at the 3000/4000-level), each completed with a minimum grade of C-.
3. MATH 1253/2243 or MATH 1253/2253 or MATH 2233/2243, each completed with a minimum grade of C-.
4. CHEM 1013 and CHEM 1023, each completed with a minimum grade of C-.

## BIOLOGY WITH A MINOR IN KINESIOLOGY

**Graduation Requirements**

In addition to the following program requirements, students must also satisfy the Bachelor of Science with Major in Biology requirements as outlined in this Calendar.

**Program Requirements**

Students must complete 18 credit hours (18h) in Kinesiology (at least 6h of which must be at the 3000/4000-level), selected in consultation with the Director of the School of Kinesiology. Students must have a minimum GPA of 3.00 based on a minimum of 30h of university study.

## Double Majors in Biology

Biology students who wish to complete a second major in Chemistry, Kinesiology, or Nutrition should consult the specific program requirements outlined in the Faculty of Pure and Applied Science section in this Calendar. All other students should use the general requirements that follow.

## DOUBLE MAJOR: BIOLOGY AS THE FIRST MAJOR

**Graduation Requirements**

In addition to the following program requirements, students must also satisfy the Bachelor of Science with Double Major requirements as outlined in this Calendar.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) in the Major as follows:

1. The Biology Core (15h), each completed with a minimum grade of C-.
2. 27h additional BIOL (21h of which are to be at the 3000/4000-level), each completed with a minimum grade of C-.
3. MATH 1253/MATH 2243 or MATH 1253/ MATH 2253 or MATH 2233/ MATH 2243, each completed with a minimum grade of C-.
4. CHEM 1013 and CHEM 1023, each completed with a minimum grade of C-.

## DOUBLE MAJOR: BIOLOGY AS THE SECOND MAJOR

**Graduation Requirements**

In addition to the following program requirements, students must also satisfy the Bachelor of Science with Double Major requirements as outlined in this Calendar.

**Program Requirements**

Students must complete a minimum of 33 credit hours (33h) in the Major as follows:

1. BIOL 1113, BIOL 1123, BIOL 2013, each completed with a minimum grade of C-.
2. 6h from BIOL 2033, BIOL 2043, BIOL 2053, or BIOL 2073 each completed with a minimum grade of C-.
3. 18h additional Biology at the 3000/4000 level, each completed with a minimum grade of C-.

## DOUBLE MAJOR: BIOLOGY WITH SECOND MAJOR IN CHEMISTRY

**Graduation Requirements**

In addition to the program requirements that follow, students must also satisfy the Bachelor of Science with Double Major requirements as outlined in this Calendar.

**Program Requirements**

Students must complete a minimum of 42 credit hours (42h) in the Biology Major and 30 credit hours (30h) in the Chemistry Major as follows:

1. The Biology Core (15h), each completed with a minimum grade of C-.
2. 27h additional BIOL (21h of which must be at the 3000/4000-level), each completed with a minimum grade of C-.
3. MATH 1253/MATH 2243 or MATH 1253/MATH 2253 or MATH 2233/MATH 2243, each completed with a minimum grade of C-.
4. 30h of Chemistry chosen in consultation with the Chemistry Department.

## DOUBLE MAJOR: BIOLOGY WITH SECOND MAJOR IN NUTRITION

**Graduation Requirements**

In addition to the following program requirements, students must also satisfy the Bachelor of Science with Double Major requirements as outlined in this Calendar.

**Program Requirements**

Students must complete a minimum of 36 credit hours (36h) in the Biology Major and 30 credit hours (30h) in the Nutrition Major as follows:

1. The Biology Core (15h).
2. 21h additional BIOL (12h of which must be at the 3000/4000-level).
3. 30h Nutrition in consultation with the Director of the School of Nutrition and Dietetics.

## MINOR IN BIOLOGY

The requirements for a minor vary by faculty and program(s) of study. BSc students completing a Minor in Biology are required to complete 18 credit hours (18h) and BA students completing a Minor in Biology are required to complete 24 credit hours (24h) in the minor program. Biology Minors require a minimum of 12 credit hours (12h) at the 2000, 3000, or 4000 level. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study. Pre-requisite: NS 12 or university chemistry, excluding CHEM 1053.

## Cross-Listed Courses

The following courses may be counted towards credit in Biology: CHEM 2713, CHEM 3723, CHEM 3783, CHEM 4723, CHEM 4773, GEOL 2213, and a maximum of 6h from the following PSYC courses: PSYC 3053, PSYC 3083, PSYC 3133, PSYC 3323, PSYC 3383, PSYC 4343.

# Biotechnology

Office of the Dean of Pure and Applied Science
Huggins Science Hall, Room 304
http://science.acadiau.ca/

Program Offered: Minor

## MINOR IN BIOTECHNOLOGY

A minor in Biotechnology requires the completion of 24 credit hours (24h) that must be exclusively for the minor program listed below. Students wanting to complete the biotechnology minor must be enrolled in the Co-operative Education Option; therefore, one of their three work terms will be completed in the minor. All courses offered towards this minor must be completed with a minimum grade of C-.

**Courses**

1. Required: BIOT 2013, BIOT 3413 or BIOT 3423, COOP 1902, COOP 2902, COOP 3902.
2. 12h from BIOL 2013, BIOL 2053, BIOL 3063, BIOL 3553, BIOL 3573, BIOL 3613, BIOL 3883, BIOL 4673, BIOL 4773, CHEM 1013, CHEM 1023, CHEM 2303, CHEM 2513, CHEM 2533, CHEM 2713, CHEM 2813, CHEM 3143, CHEM 3513, CHEM 3523, CHEM 3723, CHEM 3823, CHEM 4773.

# Business Administration

Fred C. Manning School of Business Administration; Patterson Hall
Ph: (902) 585-1140; Fax: (902) 585-1085; http://business.acadiau.ca/

Programs Offered**:** Bachelor of Business Administration (BBA), Bachelor of Business Administration with Honours (BBAH), Bachelor of Business Administration with Major, Minor. As detailed below it is also possible to complete a BBA with Honours and Major.

**The Bachelor of Business Administration Program**

The program of study leading to the degree of Bachelor of Business Administration is designed to provide a sound liberal education together with the study of business organization and management principles. A broad and substantial background is thus provided for the graduate entering industry, government service or further study.

A typical four-year program consists of:
**Year 1:** BUSI 1013, 1703, COMM 1213, MATH 1613 or MATH 1013, ECON 1013, ECON 1023, ECON 2613 or MATH 1253, 9h electives.
**Year 2 (Core year):** BUSI 2013, BUSI 2223, BUSI 2233, BUSI 2423, BUSI 2433, BUSI 2513, BUSI 2733, BUSI 2743, 6h electives. Most students will take their Core year courses in their second year. Normally, students must complete all first-year requirements before being enrolled in the Core-year program.
**Year 3:** BUSI 2803, BUSI 3063, BUSI 3613, 21h electives.
**Year 4:** BUSI 4953, BUSI 4963, 24h electives.

**The Bachelor of Business Administration with Honours**
The objectives of the honours program in Business Administration are to develop outstanding and independent achievement, to enrich the educational program in breadth and depth beyond the normal program, and to encourage a student to work to maximum potential so as to increase their opportunities for graduate work and for challenging positions in business, industry, and civil service. Application for admission to the honours program should be made to the Director, usually at the end of the second year of study.

**Bachelor of Business Administration with Major**
Within the School of Business, students have the option to complete a major in the functional disciplines of accounting, marketing, finance, employment relations, business technology management, and entrepreneurship and innovation. Admission to a major is normally done at the end of the first term of the second year; however, students are advised to plan their first year to ensure non-business courses within their degree requirements can be completed in the necessary sequence.

**Minors In Areas Outside the School of Business**
All BBA students have the option to complete a minor in a single subject area or in a multidisciplinary area as part of their degree. The minor must be in subject areas outside the School of Business, using credit hours otherwise designated as non-business electives. A minor consists of at least 18 credit hours (18h) for single subject areas and at least 24 credit hours (24h) for multidisciplinary areas. Courses attributed to a minor must be distinct from non-business courses required to satisfy other BBA requirements. Students interested in completing a minor should discuss it with their academic advisor and review the requirements for a minor in the relevant academic department.

**Communication Skills**
Most courses offered by the School contain a component which exercises and tests communication skills (essays, business reports, oral presentations, etc.). As a result, communication skills form an important part of student success throughout the program.

**Repeating Business Courses**
Normally, all BUSI courses may be repeated only once. Appeals based on academic or compassionate grounds may be made to the Director.

**Transferring into Business Programs**
Students wishing to transfer to business programs will normally have a CGPA of 2.50 and Mathematics 12 or equivalent, although individual situations can be considered.

## BACHELOR OF BUSINESS ADMINISTRATION WITH HONOURS AND MAJOR

**Graduation Requirements**
Students must complete a minimum of 120 credit hours (120h) including the program requirements outlined below (please note: most BBA Honours programs with Major require the completion of more than 120h). In addition, a minimum program GPA of 3.00 is required for graduation.

**Program Requirements**
All students must complete the 72h as outlined in requirements 1-4 below, plus additional courses as listed with their chosen major.

1. All of the following (51h): BUSI 1013, BUSI 1703, BUSI 2803, BUSI 2013, BUSI 2223, BUSI 2233, BUSI 2423, BUSI 2433, BUSI 2513, BUSI 2733, BUSI 2743, BUSI 3063, BUSI 3483, BUSI 3613, BUSI 3993, BUSI 4953, BUSI 4963, each completed with a minimum grade of B-.
2. 6h from BUSI 4886 or BUSI 407T/BUSI 408T (whichever course is chosen must be completed with a minimum grade of B-).
3. All of the following (12h): COMM 1213, ECON 1013, ECON 1023, and ECON 2613 or MATH 1253, each completed with a minimum grade of C-.
4. 3h from MATH 1613 or MATH 1013 (whichever course is chosen must be completed with a minimum grade of C-).

**Major in Accounting**

5. All of the following (9h): BUSI 2033, BUSI 3073, BUSI 3083 (each completed with a minimum grade of C-).
6. 15h from BUSI 3113, BUSI 3373, BUSI 3383, BUSI 3623, BUSI 4073, BUSI 4083, BUSI 4113 (or approved equivalents); (Courses chosen must be completed with a minimum grade of C-).
7. 15h of non-business courses.
8. 9h of university electives (business or non-business).

**Major in Business Technology Management**

5. All of the following (12h): BUSI 3723, BUSI 3813, BUSI 3853, BUSI 4663 (each completed with a minimum grade of C-).
6. All of the following (15h): COMP 1113, COMP 1123, COMP 2853, COMP 2863, COMP 3513.
7. 6h from BUSI 2773, BUSI 3293, BUSI 4433, BUSI 4553, BUSI 4893 (courses chosen must be completed with a minimum

grade of C-).
8. 6h from COMP 1813, COMP 3033, COMP 2663, COMP 2903.
9. 9h of university electives (business or non-business).

**Major in Employment Relations**

5. All of the following (9h): BUSI 3313, BUSI 3323, BUSI 4313 (each completed with a minimum grade of C-).
6. 12h from BUSI 3483, BUSI 3623, BUSI 3723, BUSI 3733, BUSI 3753, BUSI 3763, BUSI 4323, BUSI 4633, BUSI 4663, BUSI 4933, BUSI 4943, COMM 1223 (Courses chosen must be completed with a minimum grade of C-).
7. 12h from ECON, PSYC, SOCI, WGST or other non-business disciplines related to the field of Employment Relations as approved by the Director of the School of Business.
8. 9h of non-business courses.
9. 6h of university electives (business or non-business).

**Major in Entrepreneurship and Innovation**

5. All of the following (9h): BUSI 2773, BUSI 4773, BUSI 4553 (each completed with a minimum grade of C-).
6. 15h from BUSI 2763, BUSI 3853, BUSI 3723, BUSI 4413, BUSI 4563, BUSI 4613, BUSI 4653, BUSI 4663 (Courses chosen must be completed with a minimum grade of C-).
7. 18h of non-business courses.
8. 6h university electives (business or non-business).

**Major in Finance**

5. All of the following (12h): BUSI 2033, ECON 2623, BUSI 3243, BUSI 3273, each completed with a minimum grade of C-
6. 12h from BUSI 3233, BUSI 3253, BUSI 4223, BUSI 4233, BUSI 4243, BUSI 4253 (Courses chosen must be completed with a minimum grade of C-).
7. 9h from BUSI 3073, ECON 2113, ECON 2213, ECON 3113, ECON 3123, ECON 3133, ECON 3143.
8. 9h of non-business courses.
9. 6h of university electives (business or non-business).

**Major in Marketing**

5. Both of the following (6h): BUSI 3433, BUSI 3473 (each completed with a minimum grade of C-).
6. 15h from BUSI 3463, BUSI 4403, BUSI 4413, BUSI 4423, BUSI 4433, BUSI 4483, BUSI 4543, BUSI 4633, BUSI 4653, BUSI 4933/BUSI 4943 (Courses chosen must be completed with a minimum grade of C-).
7. 18h of non-business courses.
8. 9h university electives.

## BACHELOR OF BUSINESS ADMINISTRATION WITH HONOURS

**Graduation Requirements**

Students must complete a minimum of 120 credit hours (120h) including the program requirements outlined below. In addition, a minimum program GPA of 3.00 is required for graduation.

**Program Requirements**

1. All of the following (51h): BUSI 1013, BUSI 1703, BUSI 2803, BUSI 2013, BUSI 2223, BUSI 2233, BUSI 2423, BUSI 2433, BUSI 2513, BUSI 2733, BUSI 2743, BUSI 3063, BUSI 3483, BUSI 3613, BUSI 3993, BUSI 4953, BUSI 4963, COMM 1213, each completed with a minimum grade of B-.
2. 6h from BUSI 4886 or BUSI 407T/BUSI 408T (whichever course is chosen must be completed with a minimum grade of B-).
3. All of the following (12h): ECON 1013, ECON 1023, and ECON 2613 or MATH 1253, each with a minimum grade of C-.
4. 3h from MATH 1613 or MATH 1013 (whichever course is chosen must be completed with a minimum grade of C-).
5. 9h of business electives.
6. 24h non-business electives.
7. 15h university electives (business or non-business).

## BACHELOR OF BUSINESS ADMINISTRATION WITH MAJOR

**Graduation Requirements**

Students must complete a minimum of 120 credit hours (120h) including the program requirements outlined below. In addition, a minimum program GPA of 2.00 is required for graduation.

**Program Requirements**

Students must complete the 48 credit hours outlined in requirement 1 below, plus additional courses as described within their chosen major.

1. All of the following (48h): BUSI 1013, BUSI 1703, BUSI 2803, BUSI 2013, BUSI 2223, BUSI 2233, BUSI 2423, BUSI 2433, BUSI 2513, BUSI 2733, BUSI 2743, BUSI 3063, BUSI 3613, BUSI 4953, BUSI 4963, COMM 1213 each completed with a minimum grade of C-.

**Major in Accounting**

2. All of the following (9h): ECON 1013, ECON 1023, and ECON 2613 or MATH 1253, each completed with a minimum grade of C-.
3. 3h from MATH 1613 or MATH 1013 (whichever course is chosen must be completed with a minimum grade of C-).
4. All of the following (9h): BUSI 2033, BUSI 3073, BUSI 3083 (each completed with a minimum grade of C-).

5. 15h from BUSI 3113, BUSI 3373, BUSI 3383, BUSI 3623, BUSI 4013, BUSI 4073, BUSI 4083, BUSI 4113 (or approved equivalents) (Courses chosen must be completed with a minimum grade of C-).
6. 24h of non-business courses.
7. 12h university electives (business or non-business).

**Major in Business Technology Management**

2. All of the following (9h): ECON 1013, ECON 1023, and ECON 2613 or MATH 1253.
3. 3h from MATH 1613 or MATH 1013.
4. All of the following (12h): BUSI 3723, BUSI 3813, BUSI 3853, BUSI 4663, each completed with a minimum grade of C-.
5. All of the following (15h): COMP 1113, COMP 1123, COMP 2853, COMP 2863, COMP 3513.
6. 6h from BUSI 2773, BUSI 3293, BUSI 4433, BUSI 4553, BUSI 4893 (Courses chosen must be completed with a minimum grade of C-).
7. 6h from COMP 1813, COMP 3033, COMP 2663, COMP 2903.
8. 6h of non-business courses.
9. 15h university electives (business or non-business).

**Major in Employment Relations**

2. All of the following (9h): ECON 1013, ECON 1023, and ECON 2613 or MATH 1253.
3. 3h from MATH 1613 or MATH 1013.
4. All of the following (9h): BUSI 3313, BUSI 3323, BUSI 4313 (each completed with a minimum grade of C-).
5. 12h from BUSI 3483, BUSI 3623, BUSI 3723, BUSI 3733, BUSI 3753, BUSI 3763, BUSI 4323, BUSI 4633, BUSI 4663, BUSI 4933, BUSI 4943, COMM 1223 (Courses chosen must be completed with a minimum grade of C-).
6. 12h from ECON, PSYC, SOCI, WGST or other non-business disciplines related to the field of Employment Relations as approved by the Director of the School of Business.
7. 15h of non-business courses.
8. 12h university electives (business or non-business).

**Major in Entrepreneurship and Innovation**

2. All of the following (9h): ECON 1013, ECON 1023, and ECON 2613 or MATH 1253.
3. 3h from MATH 1613 or MATH 1013.
4. All of the following (9h): BUSI 2773, BUSI 4553, BUSI 4773 (each completed with a minimum grade of C-).
5. 15h from BUSI 2763, BUSI 3853, BUSI 3723, BUSI 4413, BUSI 4563, BUSI 4613, BUSI 4653, BUSI 4663 (Courses chosen must be completed with a minimum grade of C-).
6. 27h non-business electives.
7. 9h university electives (business or non-business).

**Major in Finance**

2. All of the following (9h): ECON 1013, ECON 1023, and ECON 2613 or MATH 1253, each completed with a minimum grade of C-
3. 3h from MATH 1613 or MATH 1013 (whichever course is chosen must be completed with a minimum grade of C-).
4. All of the following (12h): BUSI 2033, ECON 2623, BUSI 3243, BUSI 3273, each completed with a minimum grade of C-.
5. 12h from BUSI 3233, BUSI 3253. BUSI 4223, BUSI 4233, BUSI 4243, BUSI 4253 (Courses chosen must be completed with a minimum grade of C-).
6. 9h from BUSI 3073, ECON 2113, ECON 2213, ECON 3113, ECON 3123, ECON 3133, ECON 3143.
7. 18h of non-business courses.
8. 9h of university electives.

**Major in Marketing**

2. All of the following (9h): ECON 1013, ECON 1023, and ECON 2613 or MATH 1253.
3. 3h from MATH 1613 or MATH 1013.
4. Both of the following (6h): BUSI 3433, BUSI 3473 (completed with a minimum grade of C-).
5. 15h from BUSI 3463, BUSI 4403, BUSI 4413, BUSI 4423, BUSI 4433, BUSI 4483, BUSI 4543, BUSI 4633, BUSI 4653, BUSI 4933/BUSI 4943 (Courses chosen must be completed with a minimum grade of C-).
6. 27h of non-business courses.
7. 12h of university electives.

## BACHELOR OF BUSINESS ADMINISTRATION

**Graduation Requirements**

Students must complete a minimum of 120 credit hours (120h) including the program requirements outlined below. In addition, a minimum program GPA of 2.00 is required for graduation.

**Program Requirements**

1. All of the following (57h): BUSI 1013, BUSI 1703, BUSI 2803, BUSI 2013, BUSI 2223, BUSI 2233, BUSI 2423, BUSI 2433, BUSI 2513, BUSI 2733, BUSI 2743, BUSI 3063, BUSI 3613, BUSI 4953, BUSI 4963, COMM 1213, each completed with a minimum grade of C-.
2. All of the following (9h): ECON 1013, ECON 1023, and ECON 2613 or MATH 1253.
3. 3h from MATH 1613 or MATH 1013.
4. 15h business electives.
5. 30h non-business electives.
6. 15h university electives (business or non-business).

## DOUBLE MAJOR: BUSINESS AS THE SECOND MAJOR

**Graduation Requirements**

The requirements for a second major vary by faculty and program(s) of study. In addition to the following program requirements, students pursuing a second major in business should consult with their Academic Advisor to ensure they will meet the requirements for their specific program of study.

**Program Requirements**

Students must complete a minimum of 36 credit hours (36h) in the Major as follows:

1. 6h of the following courses: BUSI 1013 0r BUSI 1053, BUSI 1703, each completed with a minimum grade of C-.
2. 6h of the following courses: ECON 1013, ECON 1023.
3. At least 24h of additional business courses (9h of which must be at the 3000/4000-level).

## MINOR IN BUSINESS

**Graduation Requirements**

The requirements for a minor vary by faculty and program(s) of study. Students pursuing a minor in business should consult with their Academic Advisor to ensure they will meet the requirements for their specific program of study.

**Program Requirements**

Students must complete a minimum of 24 credit hours (24h) in the Minor as follows:

1. 6h of the following courses: BUSI 1013 0r BUSI 1053, BUSI 1703, each completed with a minimum grade of C-.
2. 6h of the following courses: ECON 1013, ECON 1023.
3. At least 12h of additional business courses.

## MINORS IN AREAS OUTSIDE THE SCHOOL OF BUSINESS

All BBA students have the option to complete a minor in a single subject area or in a multidisciplinary area as part of their degree. The minor must be in subject areas outside the School of Business, using credit hours otherwise designated as non-business electives. A minor consists of at least 18 credit hours (18h) for single subject areas and at least 24 credit hours (24h) for multidisciplinary areas. Courses attributed to a minor must be distinct from non-business courses required to satisfy other BBA requirements. Students interested in completing a minor should discuss it with their academic advisor and review the requirements for a minor in the relevant academic department.

# Canadian Studies

Office of the Dean of Arts; Beveridge Arts Centre
Coordinator: Dr. Stephen Henderson (stephen.henderson@acadiau.ca)

Canadian Studies is a multidisciplinary program highlighting various perspectives on Canadian society – its history, political and legal systems, languages and cultures, for example. Students are challenged to investigate Canada from the perspectives of disciplines in the Humanities (Art, English & Theatre, French, History) and the Social Sciences (Economics, Politics, Sociology) to deepen their understanding of current social, cultural and political trends in Canada and their historical roots. Students also develop a breadth of research, reading and writing skills. Students can major in Canadian Studies alone or can combine it with another discipline to receive a double major.

Programs Offered: Bachelor of Arts with Honours (BAH), Bachelor of Arts (BA), Minor

## HONOURS IN CANADIAN STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements as outlined in the previous section of this Calendar. Students completing Honours in Canadian Studies must complete French courses for the 6h language requirement within the Arts Core.

**Program Requirements**

Students must complete a minimum of 60 credit hours (60h) in the Honours program as follows:

1. 12h from CDNS 2503, CDNS 2513, CDNS 2773, CDNS 2783, ECON 1013, ECON 1023, ENGL 2563, ENGL 2573, POLS 2223, or SOCI 1013.
2. 12h Canadian Studies courses at the 3000/4000-level.
3. 6h Canadian Studies courses at the 4000-level.
4. 6h thesis (407T/408T). The thesis course may be chosen from a range of disciplines, depending on a student's interests and supervisor.
5. 24h Canadian Studies courses, with a maximum of 12h of Canadian Studies courses at the 1000-level,

## MAJOR IN CANADIAN STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Major requirements as outlined in the previous section of this Calendar. Students completing a Major in Canadian Studies must complete French courses for the 6 credit hour (6h) language requirement within the Arts Core.

**Program Requirements**
Students must complete a minimum of 48 credit hours (48h) in the Major program as follows:

1. 12h from CDNS 2503, CDNS 2513, CDNS 2773, CDNS 2783, ECON 1013, ECON 1023, ENGL 2563, ENGL 2573, POLS 2223, or SOCI 1013.
2. 24h Canadian Studies courses, with a maximum of 12h of Canadian Studies courses at the 1000-level.
3. 12h Canadian Studies courses at the 3000/4000-level.

## CANADIAN STUDIES AS A SECOND MAJOR

**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Double Major requirements as outlined in the previous section of this Calendar. Students completing a second Major in Canadian Studies must complete French courses for the 6h language requirement within the Arts Core.

**Program Requirements**
Students must complete a minimum of 48 credit hours (48h) in the Major program as follows:

1. 12h from CDNS 2503, CDNS 2513, CDNS 2773, CDNS 2783, ECON 1013, ECON 1023, ENGL 2563, ENGL 2573, POLS 2223, or SOCI 1013.
2. 36h of Canadian Studies courses with at least 12h at the 3000/4000-level and no more than 12h at the 1000-level.

## MINOR IN CANADIAN STUDIES

Multidisciplinary minors offer an alternative to completing the minor requirements for a program in a single discipline. The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a multidisciplinary minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in Canadian Studies requires the completion of 6h from CDNS 2503, CDNS 2513, CDNS 2773, CDNS 2783, as well as the requisite number of credit hours from the list of Canadian Studies courses below. With the exception of IDST courses, no more than 12h can be in a single discipline. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted towards credit in Canadian Studies: ART 2083, ART 2093, ECON 1013, ECON 1023, ECON 2713, ECON 2813, ECON 2823, ECON 3203, ECON 3323, ECON 3413, ECON 3423, ECON 3433, ECON 3513, ECON 3523, ECON 3713, ECON 4813, ENGL 2563, ENGL 2573, ENGL 3503, ENGL 3513, ENGL 3573, ENGL 3613, ENGL 3763, ENGL 3833, ENGL 3843, ENGL 3903, ENGL 4253, FRAN 3323, FRAN 3443, FRAN 3513, FRAN 3523, FRAN 3633, FRAN 3643, FRAN 4613, HIST 1913, HIST 2263, HIST 2343, HIST 2353, HIST 2403, HIST 2463, HIST 2483, HIST 2493, HIST 2553, HIST 2503, HIST 2603, HIST 2733, HIST 2773, HIST 2783, HIST 3143, HIST 3343, HIST 3363, HIST 3383, HIST 3393, HIST 3533, HIST 3613, HIST 3623, HIST 3663, HIST 3673, HIST 3683, HIST 4343, IDST 1213, IDST 1223, IDST 2253, IDST 3103, IDST 3123, IDST 3213, IDST 3613, POLS 1303, POLS 2223, POLS 3013, POLS 3063, POLS 3103, POLS 3133, POLS 3213, POLS 3233, POLS 3303, POLS 3463, POLS 3503, POLS 3543, POLS 3703, POLS 3803, POLS 3883, POLS 3903, POLS 4023, POLS 4103, POLS 4193, POLS 4203, POLS 4303, POLS 4403, POLS 4603, POLS 4803, SOCI 1013, SOCI 2123, SOCI 2323, SOCI 2343, SOCI 2413, SOCI 2713, SOCI 2723, SOCI 3143, SOCI 3183, SOCI 3223, SOCI 3263, SOCI 3703, SOCI 3743, SOCI 4193, SOCI 4263, WGST 2923/WGST 2933, WGST 3023, WGST 4913.

# Chemistry

Department of Chemistry; Elliott Hall
Ph: (902)585-1242; Fax: (902)585-1114; http://chemistry.acadiau.ca/

The BScH and BSc (Chemistry) programs satisfy the accreditation requirements for membership in the Chemical Institute of Canada.

Programs Offered**:** Bachelor of Science with Honours (BScH), Bachelor of Science (BSc), Minor.

## THE CHEMISTRY CORE (30 credit hours)

CHEM 1113 or CHEM 1013, CHEM 1123 or CHEM 1023, CHEM 2103, CHEM 2303, CHEM 2513, CHEM 2533, CHEM 2713, CHEM 2813, CHEM 3103, CHEM 3523.

## HONOURS IN CHEMISTRY

**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours requirements as outlined in the previous section of this Calendar.

**Program Requirements**
Students must complete a minimum of 78 credit hours (78h) in the Honours program as follows:

10. The Chemistry Core (30h).
11. CHEM 3113, CHEM 4993, CHEM 407T and CHEM 408T.
12. 3h at the 4000-level
13. 15h Chemistry at the 3000- or 4000-level, excluding CHEM 3913 and CHEM 3923.

14. MATH 1013 and MATH 1023.
15. PHYS 1013 and PHYS 1023.
16. 6h from MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 1253, MATH 2243 or MATH 2253, MATH 2213, MATH 2223, MATH 1323 or MATH 1333, MATH 2313, MATH at 3000 or 4000-level, COMP 1113, COMP 1123, PHYS at the 2000-, 3000-, or 4000-level.
17. CHEM 3910 and CHEM 3920.

### Honours in Chemistry Combined with the Certificate in Applied Science

Those students who complete the requirements for the Certificate in Applied Science may substitute APSC 2113 in place of CHEM 2103 and use APSC 3313 towards their Honours in Chemistry. Students should consult with the School of Engineering regarding the requirements for the Certificate in Applied Science.

The BScH and BSc (Chemistry) programs satisfy the accreditation requirements for membership in the Chemical Institute of Canada.

## MAJOR IN CHEMISTRY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Major requirements as outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 69 credit hours (69h) in the Major program as follows:

1. The Chemistry Core (30h).
2. 3h at the 4000-level.
3. 18h Chemistry at the 3000- or 4000-level, excluding CHEM 3923. One of these 3h courses may be replaced with COOP 1902.
4. MATH 1013 and MATH 1023.
5. PHYS 1013 and PHYS 1023.
6. 6h from MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 1253, MATH 2243 or MATH 2253, MATH 2213, MATH 2223, MATH 1323 or MATH 1333, MATH 2313, MATH at 3000- or 4000-level, COMP 1113, COMP 1123, PHYS at 2000-, 3000-, or 4000-level.
7. CHEM 3910 and CHEM 3920.

### Major in Chemistry Combined with the Certificate in Applied Science

Those students who complete the requirements for the Certificate in Applied Science may substitute APSC 2113 in place of CHEM 2103 and use APSC 3313 towards their Major in Chemistry. Students should consult with the School of Engineering regarding the requirements for the Certificate in Applied Science.

## DOUBLE MAJOR: CHEMISTRY AS FIRST MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Double Major requirements as outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 51 credit hours (51h) towards the Chemistry Double Major program as follows:

1. 6h from CHEM 1013 or CHEM 1113, CHEM 1023 or CHEM 1123.
2. CHEM 2303, CHEM 2513, CHEM 2813 or CHEM 2853.
3. 24h Chemistry at the 2000-, 3000-, or 4000-level, with a minimum of 18h at the 3000- or 4000-level.
4. 6h from MATH 1013, MATH 1023, or MATH 1253, MATH 2243, or MATH 1253, MATH 2253.
5. 6h from PHYS 1013 or PHYS 1053, PHYS 1023 or PHYS 1063.

## DOUBLE MAJOR: CHEMISTRY AS SECOND MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Double Major requirements as outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 36 credit hours (36h) towards the Chemistry Double Major program as follows:

1. 6h from CHEM 1013 or CHEM 1113, CHEM 1023 or CHEM 1123
2. 24h at the 2000-, 3000-, or 4000-level.
3. 6h from MATH 1013, MATH 1023, or MATH 1253, MATH 2243, or MATH 1253, MATH 2253.

## MINOR IN CHEMISTRY

The Minor in Chemistry requires 18h of Chemistry courses with a minimum 12h at the 2000, 3000, or 4000-level.

### Cross-Listed Courses

The following course may be counted towards major or minor credit in Chemistry: APSC 3213.

## Classical Studies

Department of History and Classics; Beveridge Arts Centre
Ph: (902) 585-1504; Fax: (902) 585-1070; http://history.acadiau.ca/

Classical Studies is a multi-disciplinary program that focuses on the ancient Mediterranean world, from prehistory to the late Roman period. Students explore the ancient civilizations – Greek, Roman, Egyptian, and Near Eastern – that fundamentally shaped our modern world and influenced the way we live and think today. The Classical Studies program consists of courses on ancient history, literature, mythology, civilization, art history, archaeology, law, gender, religion, philosophy, and the cultural legacy of Graeco-Roman antiquity. In order to maximize your understanding of this rich historical context, you will develop language skills in ancient Greek and Latin. The Classical Studies program stresses critical writing and reading skills, the articulation of complex ideas, awareness of modern challenges that stem from the classical past, and the incorporation of Digital Humanities to the study of the ancient world.

Programs Offered**:** Bachelor of Arts with Honours (BAH), Bachelor of Arts (BA), Minor

### HONOURS IN CLASSICAL STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements as outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 60 credit hours (60h) towards the Honours program as follows:

1. 6h from GREE 1103 and GREE 1113, or LATI 1103 and LATI 1113, or equivalent.
2. 48h in Classics, Greek and Latin, 12h of which must be at the 3000-level.
3. CLAS 407T/CLAS 408T.

### HONOURS WITH DOUBLE MAJOR IN CLASSICAL STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours (Double Major) requirements as outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) towards the Honours Classics program as follows:

1. 6h from GREE 1103 and GREE 1113, or LATI 1103 and LATI 1113, or equivalent.
2. 42h in Classics, Greek, and Latin, 12h of which must be at the 3000-level.
3. CLAS 407T/CLAS 408T.

### MAJOR IN CLASSICAL STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements as outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 42 credit hours (42h) towards the Major program as follows:

1. 6h from GREE 1103 and GREE 1113, or LATI 1103 and LATI 1113, or equivalent.
2. 36h in Classics, Greek and Latin courses, of which 18h must be at the 3000-level.

### DOUBLE MAJOR IN CLASSICAL STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements as outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 36 credit hours (36h) towards the Classics program as follows:

1. 6h from GREE 1103 and GREE 1113 or LATI 1103 and LATI 1113 or equivalent.
2. 30h in Classics, Greek and Latin courses of which 18h must be at the 3000-level.

### MINOR IN CLASSICAL STUDIES

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

Note: In any of the above programs, Latin and/or Greek courses may be substituted, in consultation with the Department, for the elective Classics courses.

### Cross-Listed Courses

The following courses may be counted towards credit in Classical Studies: ART/HIST 1813, CREL 2206, CREL 2553, ENGL 2113, HIST 2033, HIST 2613, HIST 3713, HIST 3733, PHIL 2003, PHIL 2033, POLS 3353, THEA 2883, as well as Greek (GREE) and Latin (LATI) courses.

## Community Development

Department of Community Development; 24 Highland Avenue
Ph: (902) 585-1677; Fax**:** (902) 585-1051; http://commdev.acadiau.ca/

The Acadia Community Development Program develops professionals who contribute to improving quality of life and building healthy, active and sustainable communities. Our graduates provide leadership in the broad fields of social advocacy, health and wellness promotion, community economic development, recreation, parks and tourism development, and environmental and adventure education. Our graduates strive to develop a sustainable and just society. Students work collaboratively with faculty both in the classroom and in the community to build specific competencies and define an area of focus. Essential theory and concepts are balanced with field experiences to develop knowledge, skills and confidence. Students have unique experiences in their final year that include a major community-based research project, and each student gains valuable work experience in a professional work placement relevant to their career interests.

**Programs Offered:** Bachelor of Community Development with Honours (BCDH), Bachelor of Community Development (BCD). The BCDH and BCD programs are also offered with Environmental and Sustainability Studies (ESST).

All four degrees are additionally offered with a Co-op option. To graduate with Co-op, students are required to complete three 4-month Co-op work terms (COOP 1902, COOP 2902, COOP 3902) or a 12 or 16-month internship (COOP 3706 or COOP 3806). Co-op students who complete COOP 3902 have the option of completing COOP 4900 with their degree. Students will receive two credit hours for each of the first three four-month Co-op courses completed, or 6 credit hours (6h) for completion of a 12 or 16-month internship (up to a maximum total of 6 credit hours (6h), which count as two elective courses towards graduation requirements.

Visit http://co-op.acadiau.ca/ for more information.

### THE CORE TERM

The core term provides opportunities for final year students to apply their accumulated knowledge and expertise in professional community development experiences. Students will complete two block courses CODE 4013 and CODE 4033. Then they will complete CODE 4059 in which they can complete a three-week community development project and/or a six-week professional placement, or complete a nine-week professional placement that involves an advanced community development research project. Six and nine-week professional placements must be approved by the Department.

Students must successfully complete all Community Development Core courses at the 1000-, 2000-, & 3000-levels and must have fourth-year standing for entrance into the core term or have permission of the Department.

### MINORS IN AREAS OUTSIDE THE DEPARTMENT OF COMMUNITY DEVELOPMENT

All Community Development students have the option to complete a minor in a single subject area or in a multidisciplinary area as part of their degree. The minor must be in subject areas outside the Department of Community Development and other program requirements. A minor consists of at least 18h - 24h depending on the program requirements in the relevant academic department. Students interested in completing a minor should discuss it with their academic advisor.

Community Development does not offer an option for a Community Development Minor.

### BACHELOR OF COMMUNITY DEVELOPMENT WITH HONOURS

#### Graduation Requirements

Students must complete the program as outlined below. A GPA of 3.00 is required in the courses in the Community Development Core. A program GPA of 3.00 is required to graduate in the Honours program.

#### Program Requirements

Students must complete 120 credit hours (120h) in the Honours program as follows:

1. Community Development Core (45h): CODE 1013, CODE 1023, CODE 1033, CODE 1043, CODE 2023, CODE 2033, CODE 2613, CODE 3013, CODE 3023, CODE 3583, CODE 4013, CODE 4033, CODE 4059, each completed with a minimum grade of C-.
2. All of the following: CODE 407T/CODE 408T.
3. Community Development Professional electives (12h): CODE electives.
4. Management Core (15h): BUSI courses determined by the Department of Community Development and the School of Business, completed with minimum grades of C-.
5. Liberal Education Core (21h): 21h of Arts or Science courses taken at the direction of the Department.
6. A second 3h approved research course.
7. 18h of approved electives to represent an area of study.

## BACHELOR OF COMMUNITY DEVELOPMENT

**Graduation Requirements**

In addition to the program requirements outlined below, a GPA of 2.00 is required in the courses in the Community Development Core. A program GPA of 2.00 is required to graduate.

**Program Requirements**

Students must complete 120 credit hours (120h) in the BCD program as follows:

1. Community Development Core (45h): CODE 1013, CODE 1023, CODE 1033, CODE 1043, CODE 2023, CODE 2033, CODE 2613, CODE 3013, CODE 3023, CODE 3583, CODE 4013, CODE 4033, CODE 4059, each completed with a minimum grade of C-.
2. Community Development Professional electives (12h): CODE electives.
3. Management Core (15h): BUSI courses determined by the Department of Community Development and the School of Business, completed with minimum grades of C-.
4. Liberal Education Core (24h): 24h of Arts or Science courses taken at the direction of the Department.
5. 24h of electives at the direction of the Department to represent an area of study.

## BACHELOR OF COMMUNITY DEVELOPMENT WITH HONOURS WITH ENVIRONMENTAL AND SUSTAINABILITY STUDIES

**Graduation Requirements**

In addition to the program requirements outlined below, a minimum program GPA of 3.00 is required to graduate.

**Program Requirements**

Students must complete a minimum of 120 credit hours (120h) in the program as follows:

1. All of the following Core courses with minimum GPA of 3.00: CODE 1023, CODE 1033, CODE 1043, CODE 2033, CODE 2613, CODE 3013, CODE 3023, CODE 3583, CODE 4013, CODE 4033, CODE 4059, ENVS 1013, ESST 1003, ESST 1023, ESST 4003, each completed with a minimum grade of C-.
2. CODE 407T/CODE 408T.
3. 3h from ESST 2003 or CODE 1013.
4. 3h from ESST 3003 or CODE 2023.
5. Community Development Professional electives (12h): CODE electives.
6. Management Core (15h): BUSI courses determined by the Department of Community Development and the School of Business, completed with minimum grades of C-.
7. A second 3h approved research course.
8. 9h electives at the direction of the Community Development program.
9. 18h ESST approved elective courses: APSC 3413, ART 2053, ART 2063, BIOL 2033, BIOL 3753, BIOL 4423, BUSI 2763, BUSI 3753, BUSI 4633, BUSI 4773, CLAS 3133, CODE 1533, CODE 2613, CODE 3013, CODE 3523, CODE 3543, CODE 3563, CODE 3583, CODE 3593, CODE 3603, CODE 3623, CREL 2413, ECON 2713, ECON 3713, ENGL 3523, ENGL 3533, ENVS 3113, ENVS 3423, ENVS 3513, HIST 2283, HIST 3383, IDST 3103, IDST 3213, NUTR 2323, POLS 3213, POLS 3483, POLS 3543, POLS 3773, POLS 3883, POLS 4603, POLS 4843, SOCI 2413, SOCI 3223, SOCI 4263, WGST 2913, or other courses with approval.

## BACHELOR OF COMMUNITY DEVELOPMENT WITH ENVIRONMENTAL AND SUSTAINABILITY STUDIES

**Graduation Requirements**

In addition to the program requirements outlined below, a minimum program GPA of 2.00 is required to graduate.

**Program Requirements**

Students must complete 120 credit hours (120h) in the program as follows:

1. All of the following Core courses with minimum grades of C-: CODE 1023, CODE 1033, CODE 1043, CODE 2033, CODE 2613, CODE 3013, CODE 3023, CODE 3583, CODE 4013, CODE 4033, CODE 4059, ENVS 1013, ESST 1003, ESST 1023, ESST 4003, each completed with a minimum grade of C-.
2. 3h from ESST 2003 or CODE 1013.
3. 3h from ESST 3003 or CODE 2023.
4. Community Development Professional electives (12h): CODE electives.
5. Management Core (15h): BUSI courses determined by the Department of Community Development and the School of Business, completed with minimum grades of C-.
6. 18h electives at the direction of the Community Development program.
7. 18h of the following list of ESST approved elective courses: APSC 3413, ART 2053, ART 2063, BIOL 2033, BIOL 3753, BIOL 4423, BUSI 2763, BUSI 3753, BUSI 4633, BUSI 4773, CLAS 3133, CODE 1533, CODE 2613, CODE 3013, CODE 3523, CODE 3543, CODE 3563, CODE 3583, CODE 3593, CODE 3603, CODE 3623, CREL 2413, ECON 2713, ECON 3713, ENGL 3523, ENGL 3533, ENVS 3113, ENVS 3423, ENVS 3513, HIST 2283, HIST 3383, IDST 3103, IDST 3213, NUTR 2323, POLS 3213, POLS 3483, POLS 3543, POLS 3773, POLS 3883, POLS 4603, POLS 4843, SOCI 2413, SOCI 3223, SOCI 4263, WGST 2913, or other courses with approval.

## Comparative Religion

Office of the Dean of Arts; Beveridge Arts Centre
Coordinator: Dr. Donna Seamone (donna.seamone@acadiau.ca)

Program Offered**:** Minor

Comparative Religion strengthens our world view by the study of the traditional world religions, Indigenous and feminist forms of spirituality, and the relation of religion to health and ecology.

### MINOR IN COMPARATIVE RELIGION

Multidisciplinary minors offer an alternative to completing the minor requirements for a program in a single discipline. The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a multidisciplinary minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in Comparative Religion requires the completion of a minimum of 9 credit hours (9h) of CREL courses, as well as the additional required number of credit hours from the list of courses below. With the exception of CREL courses, no more than 12 credit hours (12h) can be in a single discipline and all courses offered towards the minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted as credit in Comparative Religion: BIBL 5013, BIBL 5023, BIBL 6013, BIBL 6023, BIBL 7043, CHUR 5013, CHUR 7053, CLAS 2273, CLAS 2283, CLAS 2293, CLAS 2553, CLAS 3573, CLAS 3663, CLAS 3673, HEBR 7006, HIST 2003, HIST 2033, HIST 2043, HIST 2073, HIST 2533, HIST 2673, HIST 3033, HIST 3243, HIST 3453, HIST 3683, HIST 3713, IDST 1113, IDST 1123, IDST 2813, IDST 2823, PHIL 2403, POLS 3163, SOCI 2853, THEO 6203, THEO 6213, WGST 2913.

## Computer Science

Jodrey School of Computer Science; Carnegie Hall
Ph: (902) 585-1331; Fax: (902) 585-1067; cs@acadiau.ca; http://cs.acadiau.ca/

The Jodrey School of Computer Science offers bachelor's and master's degrees, both with the Co-op option, to prepare professional computer scientists with a broad knowledge of computer science and a thorough understanding of computer system software. The programs provide in-depth learning of modern software design and implementation and include the study of computer systems hardware. The BCS and BCSH programs are accredited by the Canadian Information Processing Society (CIPS) making Acadia graduates eligible for CIPS Information Systems Professional (ISP) certification after satisfying the short working experience criterion.

Programs Offered**:** Bachelor of Computer Science with Honours (BCSH), Bachelor of Computer Science (BCS), Bachelor of Applied Computer Science (BACS), Bachelor of Science with Honours (BScH), Second Major in Computer Science, Minor

### BACHELOR OF COMPUTER SCIENCE WITH HONOURS (BCSH)

**Graduation Requirements**

In addition to the program requirements outlined below, a minimum program GPA of 3.00 is required to graduate. The following courses may not count towards a degree in Computer Science: APSC 1413, ECON 2623, MATH 1613, any 1800- or 2800-level Computer Science course (with the exception of COMP 2853, which may be used as an elective course only).

**Program Requirements**

1. All of the following (51h): (COMP 1113, COMP 1123 or COMP 1233 and 3h Computer Science course), COMP 2103, COMP 2113, COMP 2203, COMP 2213, COMP 2663, COMP 2903, COMP 3343, COMP 3403, COMP 3413, COMP 3613, COMP 3703, COMP 3713, COMP 3753, COMP 407T/COMP 408T, each of which must be completed with a minimum grade of B-.
2. 12h Computer Science courses at 3000/4000-level, each with a minimum grade of B-.
3. a) 3h from MATH 1413 (recommended) or MATH 1313 with a minimum grade of B-.
   b) 3h from MATH 1323 (recommended) or MATH 1333 with a minimum grade of B-.
4. MATH 1013 and MATH 1023, with minimum grades of C-.
5. 3h from MATH 2223 or MATH 1253, with a minimum grade of C-.
6. 3h from MATH 2213 or MATH 2000+, with a minimum grade of C-.
7. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies or COMM 1213/COMM 1223.
8. 9h of courses offered by the Faculty of Arts (not SOCI 3103) .
9. 12h from the Faculty of Pure and Applied Science (not Mathematics, Computer Science, or Co-operative Education) or from the School of Business Administration.
10. 12h of elective courses (with at most 9h of Computer Science, Mathematics, or Co-operative Education).

**Data Analytics Option for BCSH**

In accord with the requirements listed above for the BCSH, students must take:

1. 3h of MATH 2223 or MATH 2243 or MATH 2253 (re: points 5, 6).

2. 6h of MATH 3233, MATH 3283, and MATH 3293 (re: point 10).
3. 12h of COMP 3033, COMP 3513, COMP 3503, COMP 3923 (Data Visualization), COMP 4613, or COMP 4923 (Machine Learning) (re: points 2, 10).
4. 12h of COMP 2853, ECON 1013, ECON 1023, BUSI 1013, BUSI 2013, BUSI 2513, BUSI 2803, BUSI 3063 (re: points 8, 9, 10).
5. The COMP 407T/COMP 408T Thesis must focus on a Data Analytics topic.

NOTE: Credit can only be obtained for one of COMP 3033 or COMP 2853.

## BACHELOR OF COMPUTER SCIENCE (BCS)

**Graduation Requirements**

In addition to the program requirements outlined below, a minimum program GPA of 2.00 is required to graduate. The following courses may not count towards a degree in computer science: APSC 1413, ECON 2623, MATH 1613, any 1800- or 2800-level Computer Science course (with the exception of COMP 2853, which may be used as an elective course only).

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. All of the following (45h): (COMP 1113, COMP 1123 or COMP 1233 and 3h Computer Science course), COMP 2103, COMP 2113, COMP 2203, COMP 2213, COMP 2663, COMP 2903, COMP 3343, COMP 3403, COMP 3613, COMP 3703, COMP 3713, COMP 3753, COMP 4983, each with a minimum grade of C-.
2. a) 3h from MATH 1413 (recommended) or MATH 1313 with a minimum grade of C-.
   b) 3h from MATH 1323 (recommended) or MATH 1333 with a minimum grade of C-.
3. 12h additional Computer Science courses with minimum grades of C-.
4. MATH 1013, MATH 1023, MATH 1253 or MATH 2213/MATH 2223, each with minimum grades of C-.
5. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies or COMM 1213/COMM 1223.
6. 9h of courses offered by the Faculty of Arts (not SOCI 3103).
7. 12h from the Faculty of Pure and Applied Science (not Mathematics, Computer Science, or Co-operative Education) or from the School of Business Administration.
8. 21h of electives (with at most 15h in Computer Science, Mathematics, or Co-operative Education).

**Data Analytics Option for BCS**

In accord with the requirements listed above for the BCS, students must take:

9. MATH 2223 or MATH 2243 or MATH 2253 (re: point 4, 8).
10. 6h of MATH 3233, MATH 3283, and MATH 3293 (re: point 8).
11. 12h of COMP 3033, COMP 3513, COMP 3503, COMP 3923 (Data Visualization), COMP 4613, or COMP 4923 (Machine Learning) (re: point 3).
12. 12h of COMP 2853, ECON 1013, ECON 1023, BUSI 1013, BUSI 2013, BUSI 2513, BUSI 2803, BUSI 3063 (re: points 6, 7, 8).
13. The Comp 4983 Project must focus on a Data Analytics topic.

## BACHELOR OF APPLIED COMPUTER SCIENCE (BACS)

**Graduation Requirements**

In addition to the program requirements outlined below, a minimum program GPA of 2.00 is required to graduate. The following courses may not count towards a degree in computer science: APSC 1413, ECON 2623, any 1800- or 2800-level Computer Science course (with the exception of COMP 2853, which may be used as an elective course only).

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. All of the following (42h): (COMP 1113, COMP 1123 or COMP 1233 and 3h Computer Science course), COMP 2103, COMP 2113, COMP 2203, COMP 2213, COMP 2663, COMP 2903, COMP 3343, COMP 3613, COMP 3663, COMP 3713, COMP 3753, COMP 4983, each with a minimum grade of C-.
2. MATH 1253 or MATH 2213/MATH 2223 with a minimum grade of C-.
3. a) 3h from MATH 1413 (recommended) or MATH 1313 with a minimum grade of C-.
   b) 3h from MATH 1323 (recommended) or MATH 1333 with a minimum grade of C-.
4. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies or COMM 1213/COMM 1223. (Students completing the specialization in Software Development may not count COMM 1213 and COMM 1223 towards this requirement.)
5. 9h of courses from the Faculty of Arts (not SOCI 3103).
6. 54h of **Interdisciplinary Study** as follows:
   a. 6h of COMP with a minimum grade of C-.
   b. 6h of COMP or MATH with a minimum grade of C-.
   c. 42h with permission of the School that must contain a Minor in another subject of at least 18h (all Minor courses must be completed with a minimum grade of C-).
   d. of the above, 15h must not be Computer Science, Mathematics, or Co-operative Education.

-or-

54h of a **Defined Option**, such as the following:

**Software Development**

a. All of the following (15h): COMP 3033, COMP 3513, COMP 3583, COMP 3773, COMM 1213 with a minimum grade of C-.
b. 12h from the School of Business Administration with a minimum grade of C-.
c. 3h COMP at 2000+ level with a minimum grade of C-.
d. 24h of electives.
e. of the above, 15h must not be Computer Science, Mathematics, or Co-operative Education.

**Game Development**

a. All of the following (27h): COMP 3553, COMP 3583, COMP 3773, COMP 4343, COMP 4553, COMP 4613, MATH 1013, MATH 1023, MATH 2313 with a minimum grade of C-.
b. 12h from the Faculty of Pure and Applied Science (not Mathematics, Computer Science, or Co-operative Education) or from the School of Business Administration.
c. 15h of electives.
d. of the above 15h must not be Computer Science, Mathematics, or Co-operative Education.

**Mobile and Ubiquitous Computing**

a. All of the following (27h): COMP 3033, COMP 3123, COMP 3583, COMP 4343, COMP 4583, MATH 1013, PSYC 1013, PSYC 1023, PSYC 2143 with a minimum grade of C-.
b. 3h from the Faculty of Pure and Applied Science (not Mathematics, Computer Science, or Co-operative Education) or from the School of Business Administration.
c. 24h of electives.
d. of the above, 15h must not be Computer Science, Mathematics, or Co-operative Education.

**Data Analytics**

a. 12h of COMP 3033, COMP 3513, COMP 3503, COMP 3923, COMP 4613, or COMP 4923 with a minimum grade of C-
b. 6h of MATH 1013, MATH 1023 with a minimum grade of C-.
c. 3h of MATH 2223 or MATH 2243 or MATH 2253 with a minimum grade of C-.
d. 6h of MATH 3233, MATH 3283, or MATH 3293 with a minimum grade of C-.
e. 12h from COMP 2853, ECON 1013, ECON 1023, BUSI 1013, BUSI 2013, BUSI 2513, BUSI 2803, BUSI 3063.
f. 15h of electives.
g. of the above, 15h must not be Computer Science, Mathematics, or Co-operative Education.

-or-

54h that constitutes a **Second Major** as follows:

a. 6h of COMP with a minimum grade of C-.
b. 48h with permission of the School that include courses to satisfy second Major requirements in another discipline (Major courses must typically be completed with a minimum grade of C-).
c. of the above 15h must not be Computer Science, Mathematics, or Co-operative Education.

## HONOURS IN COMPUTER SCIENCE (BSCH)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours requirements as outlined in the previous section of this Calendar. The following courses may not count towards a degree in computer science: APSC 1413, ECON 2623, MATH 1613, any 1800- or 2800-level Computer Science course (with the exception of COMP 2853, which may be used as an elective course only).

**Program Requirements**

Students must complete 120 credit hours (120h) for the BScH including 60 credit hours (60h) in the Honours program as follows:

1. All of the following (39h): (COMP 1113, COMP 1123 or COMP 1233 and 3h Computer Science course), COMP 2103, COMP 2113, COMP 2213, COMP 2203, COMP 2663, COMP 2903, COMP 3343, COMP 3713, COMP 3753, COMP 407T/COMP 408T.
2. 12h Computer Science courses at the 3000/4000-level.
3. a) 3h from MATH 1413 (recommended) or MATH 1313.
   b) 3h from MATH 1323 (recommended) or MATH 1333.
4. 3h from MATH 1253 or MATH 2223.

## DOUBLE MAJOR: COMPUTER SCIENCE AS THE SECOND MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Double Major requirements of their degree program. The following courses may not count towards a degree in Computer Science: APSC 1413, ECON 2623, MATH 1213, MATH 2253, MATH 1613, any 1800- or 2800-level Computer Science course (with the exception of COMP 2853, which may be used as an elective course only).

**Program Requirements**

Students must complete 120 credit hours (120h) including 36 credit hours (36h) in the Major program as follows:

1. All of the following (18h): (COMP 1113, COMP 1123 or COMP 1233 and 3h Computer Science course), COMP 2103, COMP 2113, COMP 2203, COMP 2213.
2. 6h Computer Science courses above the 1000-level (not COMP 2903).
3. 6h Computer Science at the 3000/4000-level.
4. a) 3h from MATH 1413 (recommended) or MATH 1313.
   b) 3h from MATH 1323 (recommended) or MATH 1333.

## CERTIFICATE IN COMPUTER SCIENCE

The Certificate in Computer Science is intended for part-time students and is not open to students enrolled in a degree program on a full-time basis.

**Program Requirements**

Students must complete 30 credit hours (30h) in the Certificate program as follows:

1. All of the following (18h): (COMP 1113, COMP 1123 or COMP 1233 and 3h Computer Science course), COMP 2103, COMP 2113, COMP 2203, COMP 2213.
2. 6h Computer Science courses above the 1000-level (not COMP 2903).
3. a) 3h from MATH 1413 (recommended) or MATH 1313.
   b) 3h from MATH 1323 (recommended) or MATH 1333.

## MINOR IN COMPUTER SCIENCE

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Computer Science are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

# Cultural Studies

Office of the Dean of Arts; Beveridge Arts Centre
Coordinator: Dr. Geoffrey Whitehall (geoffrey.whitehall@acadiau.ca)

Programs Offered**:** Minor

## MINOR IN CULTURAL STUDIES

Cultural Studies is an inter-disciplinary and even anti-disciplinary approach to studying the complexity of the contemporary lived world. In order to understand this complexity, it presumes that students should be exposed to a variety of disciplines, theorists and practices. In this way, the multidisciplinary minor attempts to understand how culture, as a shifting, fluid and contested set of practices, connects and constitutes wider systems of power.

Multidisciplinary minors offer an alternative to completing the minor requirements for a program in a single discipline. The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a multidisciplinary minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in Cultural Studies requires the completion of a minimum of 9h chosen from the following: ART 2073, PHIL 2103, POLS 3483, POLS 3783, SOCI 2533. The balance of the minor is to be satisfied from a selection of courses below with enough credit hours to satisfy minor requirements in a specific program of study. All courses offered towards this minor must be completed with a minimum grade of C-. No more than 12h may be in a single discipline and only 2 of: ENGL 3663, ENGL 3673, ENGL 3683, may be presented for the minor in Cultural Studies.

### Cross-Listed Courses

The following courses may be counted as credit in Cultural Studies: ART 2073, CREL 3693, ENGL 3663, ENGL 3673, ENGL 3683, ENGL 3723, HIST 2273, HIST 2463, HIST 2493, HIST 2623, IDST 1213, IDST 1223, IDST 2063, MUSI 1253, MUSI 3003, PHIL 1113, PHIL 2103, PHIL 3613, POLS 1403, POLS 3483, POLS 3783, POLS 3943, POLS 3993, POLS 4483, SOCI 2233, SOCI 2403, SOCI 2413, SOCI 2533, SOCI 2563, SOCI 3803, THEA 3923, THEA 3973, WGST 2403.

## Diaspora Studies

Office of the Dean of Arts; Beveridge Arts Centre
Coordinator: TBA

Program Offered**:** Minor

### MINOR IN DIASPORA STUDIES

Multidisciplinary minors offer an alternative to completing the minor requirements for a program in a single discipline. The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a multidisciplinary minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

There are no required courses for the minor in Diaspora Studies. Students who wish to complete this minor are required to present the minimum number of credit hours to satisfy minor requirements in their program of study from the list of courses below. With the exception of IDST courses, no more than 12h of the minor in Diaspora Studies can be in a single discipline. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted towards the minor in Diaspora Studies: ENGL 2563, ENGL 3663, ENGL 3673, ENGL 3683, FRAN 3323, FRAN 3513, FRAN 3523, FRAN 3633, FRAN 3643, HIST 2263, HIST 2303, HIST 2343, HIST 2393, HIST 2603, HIST 2733, HIST 2753, HIST 2773, HIST 3613, IDST 1113, IDST 1123, IDST 1213, IDST 2063, IDST 2823, MUSI 2063, POLS 4883, SOCI 1113, SOCI 2853, SOCI 3133, SPAN 3413, SPAN 3423, WGST 4913.

## Economics

Department of Economics; Beveridge Arts Centre
Ph: (902) 585-1491; http://economics.acadiau.ca/

Programs Offered**:** Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Bachelor of Science with Honours (BScH), Bachelor of Science with Major (BSc), Minor.

### BACHELOR OF ARTS WITH HONOURS IN ECONOMICS

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar. All Economics courses presented for an Honours program in Economics must be completed with a minimum grade of B-.

**Program Requirements**

Honours in Economics is attained through either a thesis-based or course-based program of study. Regardless of which route a student chooses, a minimum of 51 credit hours (51h) must be completed in the Honours program as follows:

**Thesis-based Honours**

1. All of the following: ECON 1013, ECON 1023, ECON 2113, ECON 2213, ECON 2613, ECON 2623, ECON 3113, ECON 3123, ECON 4903, ECON 407T/ECON 408T.
2. 15h Economics electives (with a minimum of 3h at the 3000/4000-level).
3. 3h from MATH 1613 or MATH 1013.

**Course-based Honours**

1. All of the following: ECON 1013, ECON 1023, ECON 2113, ECON 2213, ECON 2613, ECON 2623, ECON 3113, ECON 3123, ECON 4033, ECON 4043, ECON 4613.
2. 15h Economics electives (with a minimum of 3h at the 3000/4000-level).
3. 3h from MATH 1613 or MATH 1013.

### BACHELOR OF ARTS WITH HONOURS IN ECONOMICS AND SECOND MAJOR

**Graduation Requirements**

The Economics program requirements for Honours with a second major are identical to the degree without a second major presented above. Arts degrees require at least 36h to comprise a second major, and all program requirements for the second major chosen must be satisfied as well.

### BACHELOR OF ARTS WITH MAJOR IN ECONOMICS

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar. All Economics courses presented for the Major program in Economics must be completed with a minimum grade of C-.

**Program Requirements**
Students must complete a minimum of 45 credit hours (45h) in the Major as follows:

1. All of the following: ECON 1013, ECON 1023, ECON 2113, ECON 2213, ECON 2613, ECON 3113, ECON 3123.
2. 21h Economics electives (with a minimum of 12h at the 3000/4000-level).
3. 3h from MATH 1613 or MATH 1013.

## BACHELOR OF ARTS WITH DOUBLE MAJOR IN ECONOMICS

The Economics program requirements for a double major are identical to the degree without a double major presented above. Arts degrees require at least 36h to comprise a second major, and all program requirements for the second major chosen must be satisfied as well.

## BACHELOR OF SCIENCE WITH HONOURS IN ECONOMICS

**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. All of the required courses listed below must be completed with a minimum grade of B-.

**Program Requirements**
Honours in Economics is attained through either a thesis-based or course-based program of study. Regardless of which route a student chooses, a minimum of 63 credit hours (63h) must be completed in the Honours program as follows:

**Thesis-based Honours**

1. ECON 1013, ECON 1023, ECON 2113, ECON 2213, ECON 2613, ECON 2623, ECON 3113, ECON 3123, one of ECON 3613 or ECON 4613, ECON 4903, ECON 407T/ECON 408T.
2. 12h Economics electives.
3. MATH 1013, MATH 1023, one of MATH 1323 or MATH 1333, 3h additional MATH.
4. COMP 1113.

**Course-based Honours**

1. ECON 1013, ECON 1023, ECON 2113, ECON 2213, ECON 2613, ECON 2623, ECON 3113, ECON 3123, ECON 4033, ECON 4043, ECON 4613.
2. 15h Economics electives (with a minimum of 3h at the 3000/4000-level).
3. MATH 1013, MATH 1023, one of MATH 1323 or MATH 1333, 3h additional MATH.
4. COMP 1113.

## BACHELOR OF SCIENCE WITH HONOURS IN ECONOMICS AND SECOND MAJOR

**Graduation Requirements**
The Economics program requirements for Honours with a second major are identical to the degree without a second major presented above. Science degrees require at least 24h to comprise a second major, and all program requirements for the second major chosen must be satisfied as well.

## BACHELOR OF SCIENCE WITH MAJOR IN ECONOMICS

**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Major) requirements outlined in the previous section of this Calendar. All required courses listed below must be completed with a minimum grade of C-.

**Program Requirements**
Students must complete a minimum of 57 credit hours (57h) in the Major as follows:

1. ECON 1013, ECON 1023, ECON 2113, ECON 2213, ECON 2613, ECON 2623, ECON 3113, ECON 3123, one of ECON 3613 or ECON 4613.
2. 15h Economics electives (with a minimum of 9h at the 3000/4000-level).
3. MATH 1013, MATH 1023, one of MATH 1323 or MATH 1333, 3h additional MATH.
4. COMP 1113.

## BACHELOR OF SCIENCE WITH A DOUBLE MAJOR IN ECONOMICS

**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar. All required courses listed below must be completed with a minimum grade of C-.

**Program Requirements**
Students must complete a minimum of 57 credit hours (57h) in the Major as follows:

1. ECON 1013, ECON 1023, ECON 2113, ECON 2213, ECON 2613, ECON 2623, ECON 3113, ECON 3123, one of ECON 3613 or ECON 4613.
2. 15h Economics electives (with a minimum of 9h at the 3000/4000-level).
3. MATH 1013, MATH 1023, one of MATH 1323 or MATH 1333, 3h additional MATH.
4. COMP 1113.

## SECOND MAJOR IN ECONOMICS

The requirements for a second major vary by faculty and program of study. A second major in economics, regardless of degree, consists of a minimum of 36h in economics, which must include ECON 1013, ECON 1023, ECON 2113, ECON 3113, and ECON 3123. Students should consult with their academic advisor to ensure they will meet all requirements for their specific program of study.

## MINOR IN ECONOMICS

The requirements for a minor vary by faculty and program of study. A minor in economics consists of between 18h and 24h in economics, depending on degree, which must include ECON 1013 and ECON 1023. Students should consult with their academic advisor to ensure they will meet all requirements for their specific program of study.

## Education (BEd)

School of Education; Seminary House
infoed@acadiau.ca

Program Offered: Bachelor of Education (BEd)

The School of Education prepares students for professional teaching service in elementary and secondary schools via two program options: a two-year program (paused for 2025-2026) or 16 consecutive month program. Courses in the BEd program are taught exclusively in person.

Alternate three-year B.Ed. (Elementary) Cohort Programs
The School of Education recognizes our responsibility to respond to the historic and growing needs to provide access to a diversity of groups of people who have traditionally been denied opportunities to enter B.Ed. programs throughout universities in Nova Scotia. To meet the needs of underrepresented populations for which our current study plans are not feasible, we have added an alternative full-time study plan that delivers the B.Ed. (Elementary) program over three years. Please contact the School of Education for further details.

### Teacher Certification

The Nova Scotia Education Act requires that any person employed as a public school teacher hold a teacher's certificate issued by the provincial Department of Education. Sole authority to issue such teaching certificates rests with the Department of Education. A degree or a transcript of credit from a university is not a certificate or authority to teach in Nova Scotia. The Acadia Bachelor of Education degree normally results in the awarding of an Initial Teaching Certificate by the Nova Scotia Department of Education. Other programs lead to certification advancement in accordance with Department of Education regulations. Some certification requirements refer to academic work done prior to beginning the BEd program. For the most up-to-date requirements, consult the Registrar of Teacher Certification at the Nova Scotia Department of Education.

BEd programs cannot be taken through part-time study and must be completed within three years of initial registration.

### Professional Conduct

The School of Education has adopted guidelines for the conduct of professionals enrolled in the School's undergraduate and graduate programs. As students and aspiring teachers, counsellors, and administrators, all members of the School of Education must sign and adhere to the Guidelines as outlined in the School of Education Professional Codes of Conduct specific to each program. These Guidelines make reference to a number of documents, including, but not limited to, the Acadia Non-Academic Judicial Student Code of Conduct, Acadia's Policy Against Harassment and Discrimination, Acadia's Sexualized Violence Policy, the Nova Scotia Teachers Union Code of Ethics, and/or the Canadian Counselling and Psychotherapy Association Code of Ethics & Standards of Practice.

In the event of perceived unprofessional conduct of a student, a university advisor or faculty member is required to bring it to the immediate attention of the Director of the School of Education. The Director of the School of Education shall call a meeting of the School of Education Professional Concerns Committee (PCC), which will examine the circumstances of the reported incident(s). In some cases, such as when the professional conduct of a student falls outside of the expertise of the Committee, and/or occurs in a time and/or location outside of the field or practicum experience, the Director and the School of Education PCC may request assistance from other internal university officers (e.g., Equity, Diversity, and Inclusion Officer or Executive Director of Student Services) or other external practicum partners (e.g., Annapolis Valley Regional Centre for Education). In instances where conduct is related to alleged violations of the Acadia Non-Academic Judicial Code of Conduct or Acadia's Sexualized Violence Policy or Acadia's Policy Against Harassment and Discrimination, these cases would be referred to those relevant bodies (e.g., Discipline Committee, Responsible Authority for Sexual Violence). Decisions and actions taken by these bodies will also inform the decisions made by the School of Education PCC.

This Committee may recommend to the Dean of Professional Studies or Dean of Graduate Studies penalties, including the justification for the recommended sanction(s), which may include delay in program completion or failure of the field or practicum experience, or suspension or dismissal from their respective program. In all cases it is expected that all parties will treat the matter as confidential, and that they will refrain from discussion of the matter with others who are not directly involved. Students may appeal the penalty to the Senate Admissions and Academic Standing Appeals Committee within seven days of receiving the decision from the Dean of Professional Studies or Dean of Graduate Studies.

**Transfer Credits**
Students may, with approval of the Director, transfer a maximum of 12 credit hours of equivalent course work from a BEd program at another university. Normally, courses must be approved in advance. Requests to transfer courses must be made, in writing, to the Registrar of Acadia University and Director of the School of Education and must include a copy of the official course description.

For further detailed information on admission please visit the website: https://education.acadiau.ca/bachelor-of-education.html.

## BACHELOR OF EDUCATION (ELEMENTARY EDUCATION)

**Graduation Requirements**
In addition to the program requirements listed below, students must achieve a minimum program GPA of 2.67 and have no course grades of less than C-.

**Program Requirements**
Students must complete 60 credit hours (60h) as follows:

1. EDUC 4003, EDUC 40A3, EDUC 40B3, EDUC 4053, EDUC 41F3, EDUC 4133, EDUC 4153, EDUC 4173, EDUC 4233, EDUC 4243, EDUC 4263, EDUC 41K3, EDUC 42K3, EDUC 42N3, EDUC 4333, EDUC 4433, EDUC 4503, EDUC 4923, EDUC 4933, EDUC 42E3.

- EDUC 4683 is required for international field experience placement as a prerequisite for EDUC 4673 and EDUC 4863.

## BACHELOR OF EDUCATION (SECONDARY EDUCATION)

**Graduation Requirements**
In addition to the program requirements listed below, students must achieve a minimum program GPA of 2.67 and have no course grades of less than C-.

**Program Requirements**
Students must complete 60 credit hours (60h) as follows:

1. EDUC 4003, EDUC 40A3, EDUC 4053, EDUC 41F3, EDUC 4203, EDUC 4263, EDUC 42D3, EDUC 41K3, EDUC 42K3, EDUC 42M3, EDUC 4333, EDUC 4433, EDUC 4503, EDUC 4923, EDUC 4933.
2. 3h approved electives (except for music education majors who will not have electives).
3. All secondary education students must take two of the following combinations of courses: two methods courses in their first and second teachable areas as follows:
   a) Social Studies – EDUC 4113 and EDUC 4613.
   b) Science – EDUC 4143 and EDUC 4643.
   c) Mathematics – EDUC 4183 and EDUC 4783.
   d) English – EDUC 4353 and EDUC 4753.
   e) French – EDUC 4103 and EDUC 4793.
   f) Physical Education – (KINE 3143 or EDUC 4313) and EDUC 4703.
   g) Computer Science – EDUC 42P3 and EDUC 42R3.
   h) Music Education – EDUC 4653, EDUC 4663, EDUC 4963.

- EDUC 4683 is required for international student teaching placement, as a prerequisite for EDUC 4863 and EDUC 4673.
- Secondary students with two teachables in one discipline must consult with the School of Education for course registration.

## Integrated BSc/BEd Programs

The School of Education offers integrated BSc/BEd programs in cooperation with the Department of Mathematics and Statistics. These programs are five years in duration and are intended for undergraduate students who decide early in their academic program that they wish to pursue teaching. Students apply to the program during their first year of study. Students will be admitted to the integrated program on successful completion of Year 1. Student qualifications are reviewed on completion of Year 3 and continuation in the BEd portion of the program will be contingent on this review. Please see the Mathematics and Statistics section of this Calendar for integrated program requirements.

## TESOL Program (Teaching English to Speakers of Other Languages)

This program is designed for both prospective English language teachers interested in working in the ESL field, as well as practicing teachers who wish to upgrade their skills and qualifications. The coursework requirements for the program are EDUC 4673, EDUC 4683, and EDUC 4863. Students must also complete a non-credit practicum to satisfy the requirements of the program. The program qualifies applicants to apply for TESL Canada Standard 1 Professional Certification. Courses are available both on campus during the academic year, or by online learning.

## Course Completion and Program Continuation

When circumstances warrant, individual faculty members may grant students extensions on course assignments. If the extension is for medical reasons, it must be certified, and there may be more than one extension. A maximum of one negotiated extension is permitted in non-medical extensions. The maximum time allowed for submission of overdue assignments will be 30 days past the last day of the school term (for BEd students, this means 30 days after the last day of practicum). Faculty will submit the grade earned by the student in the course by the appropriate deadline set by the Registrar each term and, if necessary, complete a mark change upon evaluation of any assignments students complete through contracted extensions.

Students who fall into any one of the following categories may not be permitted to proceed/continue in their teaching practicum following a coursework term. Students who

1. fail to complete and submit their coursework before the beginning of the ensuing practicum.
2. fail a course in the BEd curriculum.
3. are found to be unprofessional according to the School of Education Guidelines for Professional Conduct and NSTU Code of Ethics.

Full attendance (100%) is expected for all courses and practicum. Absences will only be permitted for serious illness and family emergencies. After missing two classes, students may be required to repeat the course.

Failure in any two courses (including field placement courses) in the BEd program will result in dismissal from the program. This includes:

- failing a course once, repeating the course and failing again.
- failing a course, repeating the course and passing, and failing another course.
- failing two different courses. There will be no opportunity to repeat the courses.

### CERTIFICATE IN MATHEMATICS TEACHING (GRADES 5 TO 9)

Acadia University's Certificate in Math Teaching will build your skills as a Middle School Math educator. The certificate is designed for teachers without a strong background in mathematics or for those seeking to update their knowledge of math curriculum and pedagogy. The program addresses professional development needs identified by the Nova Scotia Department of Education, and the NS Office of Teacher Certification has approved it as an upgrade certificate for eligible teachers. In this two-year part-time program, cohort students take classes on selected Saturdays during the school year and in compressed study in the summers. The certificate combines undergraduate math courses in topics central to curriculum with graduate courses in education that focus on mathematics pedagogy, in order to provide both the content area support and the specific pedagogical knowledge to sharpen your math teaching. The courses are structured to offer a "scope and sequence" approach to math curriculum, providing an understanding of the development of these concepts across the grades, as well as the role those concepts play in understanding math in future grades. Students are also welcome to take individual courses without enrolling in the full certificate.

The following courses are required for the certificate:

1. All of the following (18h): MATH 1533, MATH 1543, MATH 1553, MATH 1563, MATH 1573, MATH 1583.
2. All of the following (9h): EDUC 5673, EDUC 5843, EDUC 5303.
3. 3h from EDUC 5053 or EDUC 5153.

## English

Department of English and Theatre; Beveridge Arts Centre
Ph: (902) 585-1502; english.theatre@acadiau.ca

The discipline of English trains students to analyze, develop an argument, and polish writing and speaking skills.

The Department offers a wide selection of courses in the literatures of Canada, Great Britain, the United States, and other English- speaking countries. It also offers a series of courses on creative writing. Those who intend to teach, enter professional schools, and proceed to graduate studies will find the Honours program especially valuable.

Programs Offered: Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Minor

### THE ENGLISH CORE (30 credit hours)

All programs in English require students to complete 30 credit hours (30h) as follows:

1. 6h from ENGL 1483-1493 (a combined two-semester course) or ENGL 1413 plus ENGL 1423 (two one-semester courses).
2. 6h from ENGL 2083-2093 (a combined two-semester course).
3. 3h from ENGL 2163, ENGL 2173, ENGL 2273.
4. 3h from ENGL 2223-2233* (a combined two-semester course), ENGL 2183, ENGL 2193, ENGL 3283, ENGL 3293.
5. 3h from ENGL 2283, ENGL 2383, ENGL 2393, ENGL 2773.
6. 3h from ENGL 2323-2333* (a combined two-semester course), ENGL 2353, ENGL 2363, ENGL 2473-2483* (a combined two-semester course), ENGL 2413, ENGL 2423, ENGL 2783, ENGL 3483.
7. 3h from ENGL 2563, ENGL 2573, ENGL 2683, ENGL 2693, ENGL 2803.
8. 3h from ENGL 3653, ENGL 3663, ENGL 3673, ENGL 3683, ENGL 3773, ENGL 3793.

*The extra 3h in these combined two-semester, 6h courses will be rolled into in the 18h of English Electives at the 2000-, 3000-, and 4000-level.

### HONOURS IN ENGLISH

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar.

**Program Requirements**
Honours in English is currently attained through either a thesis-based or course-based program of study. Regardless of which route a student chooses, a minimum of 60 credit hours (60h) must be completed in the Honours program as follows:

**Thesis-based Honours**
1. The English Core (30h).
2. 3h from ENGL 3073 or WGST 3023.
3. 6h of ENGL 407T-408T (a combined two-semester these) plus the non-credit ENGL 4060.
4. 15h of English Electives: any five courses at the 2000-, 3000-, or 4000-level (not used for Honours)
5. 6h of 4000-level English Honours Seminar courses (exclusive of ENGL 4060 and the combined ENGL 407T-408T).

**Course-based Honours**
1. The English Core (30h).
2. 3h from ENGL 3073 or WGST 3023.
3. ENGL 4060 (non-credit).
4. 15h of English Electives: any five courses at the 2000-, 3000-, or 4000-level (not used for Honours).
5. 12h of 4000-level English Honours Seminar courses.

## MAJOR IN ENGLISH
**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**
Students must complete a minimum of 48 credit hours (48h) in the Major Program as follows:
1. The English Core (30h).
2. 18h of English Electives at the 2000-, 3000-, or 4000-level.

## DOUBLE MAJOR
In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**
The requirements of a First and Second Major in English are identical. Students must complete 48 credit hours (48h) as follows:
1. The English Core (30h).
2. 18h of English Electives at the 2000-, 3000-, or 4000-level.

## MINOR IN ENGLISH
The requirements for a Minor vary by Faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a Minor in English are required to complete a minimum of 18 credit hours (18h) in the Minor program. Students pursuing a Minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study. The only required course for an English Minor is ENGL 1483-1493 or ENGL 1413 plus ENGL 1423, which must be completed before any upper-level English courses.

## Cross-Listed Courses
The following courses may be counted towards credit in English: CLAS 2573, CLAS 3573, IDST 2453, THEA 2803, THEA 2813, THEA 2883, THEA 2893, THEA 3133, THEA 3243, THEA 3883, THEA 3893, THEA 3923, THEA 3973, THEA 4833, THEA 4843, WGST 3023, WGST 3503.

# Environmental and Sustainability Studies
http://environment.acadiau.ca
Coordinator: Dr. Glyn Bissix (glyn.bissix@acadiau.ca)

The Environmental and Sustainability Studies (ESST) interdisciplinary program develops environmental leaders, managers, and professionals who are critical and insightful thinkers as well as creative problem solvers skilled in leading transformational change toward a more sustainable and just society.

Programs Offered: Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Minor

## THE ENVIRONMENTAL AND SUSTAINABILITY STUDIES CORE (24 credit hours)
All students must complete the following courses as part of any degree program in ESST: CODE 1023, ENVS 1013, ESST 1003, ESST 1023, ESST 2003, ESST 2013, ESST 3003, ESST 4003.

It is recommended, but not required, that students pursuing a major in Environmental and Sustainability Studies be exposed to science that is related to the environment. Students may wish to fill their Arts Core science requirements with one or more of these recommended courses or incorporate them into their program as part of their minor requirements or as university electives. Recommended courses include CHEM 1013, CHEM 1023, CHEM 1053; ENVS 1023; GEOL 1013, GEOL 1023, GEOL 1033, GEOL

1073, GEOL 2703, GEOL 2753; PHYS 1053, PHYS 1063.

## HONOURS IN ENVIRONMENTAL AND SUSTAINABILITY STUDIES

**Graduation Requirements**

In addition to the program requirements listed above for the BA ESST major, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar. A minimum program GPA of 3.00 is required to declare Honours and to graduate with the Honours degree and each course offered toward the Honours program in ESST must be completed with a minimum grade of B-.

Students may choose to select a concentration of study to focus their degree in one of four areas. For a description of the concentrations and list of the courses associated with each ESST Concentration Area, please see the ESST website.

**Program Requirements**

Students must complete a minimum of 57 credit hours (57h) in the BA ESST Honours program as follows:

1. The Environment and Sustainability Studies Core (24h).
2. 6h from BUSI 2763, PHIL 2303, CODE 2033.
3. 21h from any ESST courses not included in 1, above or the following list of ESST approved elective courses. 12h must be at the 3000-level or higher: APSC 3413, ART 2053, ART 2063, BIOL 2033, BIOL 3753, BIOL 4423, BUSI 2763, BUSI 3753, BUSI 4633, BUSI 4773, CLAS 3133, CODE 2613, CODE 3013, CODE 3523, CODE 3543, CODE 3563, CODE 3583, CODE 3603, CODE 3623, CREL 2413, ECON 2713, ENGL 3523, ENGL 3533, ENVS 1023, ENVS 3113, ENVS 3423, ENVS 3513, HIST 2283, HIST 3383, IDST 3103, IDST 3213, NUTR 2323, POLS 3213, POLS 3223, POLS 3483, POLS 3543, POLS 3773, POLS 3883, POLS 3883, POLS 4603, POLS 4843, SOCI 2413, SOCI 3223, SOCI 4263, WGST 2913.
4. ESST 407T/ESST 408T.

## MAJOR IN ENVIRONMENTAL AND SUSTAINABILITY STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

Students may choose to select a concentration of study to focus their degree in one of four areas. For a description of the concentrations and list of the courses associated with each ESST Concentration Area, please see the ESST website.

**Program Requirements**

Students must complete a minimum of 45 credit hours (45h) in the BA ESST program as follows:

1. The Environment and Sustainability Studies Core (24h).
2. 6h from BUSI 2763, PHIL 2303, CODE 2033.
3. 15h from any ESST courses not included in 1, above, or the following list of ESST approved elective courses. 12h must be at the 3000-level or higher: APSC 3413, ART 2053, ART 2063, BIOL 2033, BIOL 3753, BIOL 4423, BUSI 2763, BUSI 3753, BUSI 4633, BUSI 4773, CLAS 3133, CODE 2613, CODE 3013, CODE 3523, CODE 3543, CODE 3563, CODE 3583, CODE 3603, CODE 3623, CREL 2413, ECON 2713, ECON 3713, ENGL 3523, ENGL 3533, ENVS 1023, ENVS 3113, ENVS 3423, ENVS 3513, HIST 2283, HIST 3383, IDST 3103, IDST 3213, NUTR 2323, POLS 3213, POLS 3223, POLS 3483, POLS 3543, POLS 3773, POLS 3883, POLS 4603, POLS 4843, SOCI 2413, SOCI 3223, SOCI 4263, WGST 2913.

## DOUBLE MAJOR: ENVIRONMENTAL AND SUSTAINABILITY STUDIES AS SECOND MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the relevant requirements governing the first major of their double major as outlined in the previous section of this Calendar.

Students may choose to select a concentration of study to focus their degree in one of four areas. For a description of the concentrations and list of the courses associated with each ESST Concentration Area, please see the ESST website.

**Program Requirements**

Students must complete a minimum of 39 credit hours (39h) in the BA ESST program as follows:

1. The Environmental and Sustainability Studies Core (24h).
2. 6h from BUSI 2763, PHIL 2303, CODE 2033.
3. 9h from any ESST courses not included in 1, above, or the following list of ESST approved elective courses. 6h must be 3000-level or higher: APSC 3413, ART 2053, ART 2063, BIOL 2033, BIOL 3753, BIOL 4423, BUSI 2763, BUSI 3753, BUSI 4633, BUSI 4773, CLAS 3133, CODE 2613, CODE 3013, CODE 3523, CODE 3543, CODE 3563, CODE 3583, CODE 3603, CODE 3623, CREL 2413, ECON 2713, ENGL 3523, ENGL 3533, ENVS 1023, ENVS 3113, ENVS 3423, ENVS 3513, HIST 2283, HIST 3383, IDST 3103, IDST 3213, NUTR 2323, POLS 3213, POLS 3223, POLS 3483, POLS 3543, POLS 3773, POLS 3883, POLS 4603, POLS 4843, SOCI 2413, SOCI 3223, SOCI 4263, WGST 2913.

## MINOR IN ENVIRONMENTAL AND SUSTAINABILITY STUDIES

The requirements for a minor vary by faculty and program(s) of study. Students pursuing a minor in ESST should consult with their Academic Advisor to ensure they will meet the requirements for their specific program of study.

**Program Requirements**
The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor as listed in items 1 and 2 below. BSc students minoring in ESST are required to complete a minimum of 18 credit hours (18h) in the minor, 6 credit hours (6h) in any ESST coded courses, and 12 credit hours (12h) from item 2 below.

1. 6h of any ESST coded courses.
2. 18h of courses that are ESST coded or from the following list of approved elective courses. No more than 9h in any one discipline can apply to the minor: APSC 3413, ART 2053, ART 2063, BIOL 2033, BIOL 3753, BIOL 4423, BUSI 2763, BUSI 3753, BUSI 4633, BUSI 4773, CLAS 3133, CODE 2033, CODE 2613, CODE 3013, CODE 3523, CODE 3543, CODE 3563, CODE 3583, CODE 3603, CODE 3623, CREL 2413, ECON 2713, ENGL 3523, ENGL 3533, ENVS 1013, ENVS 1023, ENVS 3113, ENVS 3513, HIST 2283, HIST 3383, IDST 3103, IDST 3213, NUTR 2323, PHIL 2303, POLS 3213, POLS 3223, POLS 3483, POLS 3543, POLS 3773, POLS 3883, POLS 4603, POLS 4843, SOCI 2413, SOCI 3223, SOCI 4263, WGST 2913.

## Environmental Geoscience

Department of Earth and Environmental Science; Huggins Science Hall, Room 327
Ph: (902) 585-1208; http:/ees.acadiau.ca/

Programs Offered**:** Bachelor of Science with Honours (BScH), Bachelor of Science with Major (BSc)

**Field Methods and Field School**
Every Environmental Geoscience Major is required to participate in GEOL 2083 (Field Methods), given after spring examinations in GEOL 1013, GEOL 1023, GEOL 2133 and GEOL 2043 have been completed with minimum grades of C-. GEOL 4083 (Advanced Field School) is held for about twelve days preceding and continuing into the fall term; GEOL 4303 (Carbonate Sedimentology Field School) is held after exams in winter term.

### THE ENVIRONMENTAL GEOSCIENCE CORE (51 credit hours)
GEOL 1013, GEOL 1023, GEOL 2043, GEOL 2083, GEOL 2133, GEOL 2213, GEOL 2703, GEOL 3103, GEOL 3303, GEOL 3603, GEOL 3723, GEOL 3823, GEOL 4713, ENVS 1013, ENVS 1023, ENVS 3113, ENVS 3423.

### HONOURS IN ENVIRONMENTAL GEOSCIENCE
**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. Participation in departmental seminars is required.

**Program Requirements**
Students must complete a minimum of 96 credit hours (96h) in the Honours Program as follows:

1. The Environmental Geoscience Core (51h).
2. GEOL 407T/GEOL 408T.
3. 9h GEOL courses (or prescribed cognate courses each completed with a minimum grade of B-. Cognate courses are BIOL 2033, CHEM 2853 and ENVS 4613).
4. CHEM 1013 and CHEM 1023.
5. 6h in MATH courses.
6. PHYS 1053 and PHYS 1063 (or equivalent, with lab).
7. BIOL 1113 and BIOL 1123.
8. 6h of courses from CHEM, MATH, PHYS, BIOL or ENVS at the 2000 level or above.

- The Honours program is career-oriented and preparatory to graduate study in environmental geoscience. It provides a curriculum that allows the student to satisfy the provincially legislated knowledge requirements for professional registration as an ‘Environmental Geoscientist’.

### MAJOR IN ENVIRONMENTAL GEOSCIENCE
**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Major) requirements outlined in the previous section of this Calendar. In addition, no more than 3h non-lab Geology courses at the 1000/2000-level may be offered toward the Major.

**Program Requirements**
Students must complete a minimum of 90 credit hours (90h) in the Major Program as follows:

1. The Environmental Geoscience Core (51h).
2. 9h GEOL courses (or prescribed cognate courses each completed with a minimum grade of C-. Cognate courses are BIOL 2033, CHEM 2853, and ENVS 4613).
3. CHEM 1013 and CHEM 1023.
4. 6h in MATH.
5. PHYS 1053 and PHYS 1063 (or equivalent, with lab).
6. BIOL 1113 and BIOL 1123.
7. 6h of courses from CHEM, MATH, PHYS, BIOL or ENVS at the 2000 level or above.

- This program is career-oriented and provides a curriculum that allows the student to satisfy the provincially legislated

knowledge requirements for professional registration as an 'Environmental Geoscientist'.

## MINORS FOR ENVIRONMENTAL GEOSCIENCE MAJORS

For Environmental Geoscience majors, a minor is considered to be either (a) any subject outside of the Core in which the student has completed 6 courses; or (b) a "General Science Minor" in which a student has completed at least 9 courses (27h) from APSC, BIOL, CHEM, COMP, ENVS, MATH, and PHYS (consisting of the required 6 credit hours (6h) each of CHEM, MATH, and PHYS and 9 credit hours (9h) of any of the above subjects).

# Environmental Science

Department of Earth and Environmental Science; Huggins Science Hall
Ph: (902) 585-1208; http:/ees.acadiau.ca/

Programs Offered**:** Bachelor of Science with Honours (BScH), Bachelor of Science with Major (BSc), Minor. These programs are certified as accredited by the Canadian Environmental Accreditation Commission.

## HONOURS IN ENVIRONMENTAL SCIENCE

### Graduation Requirements

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. A minimum program GPA of 3.00 is required for graduation. In addition, 54h of courses offered to fulfill requirements 1-10 outlined below must be completed with a minimum grade of B-. ENVS students must declare a minor in only one subject. Courses used in the ENVS major can also be used for minor credit.

### Program Requirements

Students must complete 87 credit hours (87h) in the Honours Program as follows:

1. 9h from Biology: BIOL 1113, BIOL 1123, BIOL 2053.
2. 3h from BIOL 2033, BIOL 3373 or BIOL 4543.
3. 3h of Biology at or above the BIOL 3000-level.
4. 6h of CHEM 1013/CHEM 1023 or CHEM 1113/CHEM 1123.
5. 3h of Organic Chemistry: CHEM 2513.
6. 3h of Analytical Chemistry from CHEM 2813 or CHEM 2853.
7. 24 h of the following Environmental Science courses: ENVS 1013, ENVS 1023, ENVS 2523 (or an approved alternative field course), ENVS 3423, ENVS 4423, ENVS 4613, ENVS 407T/ENVS 408T.
8. 3h of Environmental courses from ENVS 3113; ENVS 3503; ENVS 3513; HIST 2283; ESST 2013; POLS 3213, POLS 3223, POLS 3883.
9. 9h from Geology: GEOL 1013, GEOL 1023, GEOL 2703.
10. 6h of Geology Electives from GEOL 2043, GEOL 2133, GEOL 2753, GEOL 3103, GEOL 3723, GEOL 3823, GEOL 4713, GEOL 4843.
11. 9h of "Advanced Science" from any GEOL, BIOL, CHEM, ENVS at the 2000+ level, as well as the following courses POLS 3213, POLS 3883, POLS 4843 HIST 2283, ESST 2003, ESST 2013, ESST 3523 or APSC 3413.
12. 6h of Statistics from MATH 1253/MATH 2243 or MATH 1253/ MATH 2253 or MATH 2233/MATH 2243 or MATH 2213/MATH 2223.
13. 3h of Physics from PHYS 1013, PHYS 1053, PHYS 1563.

## MAJOR IN ENVIRONMENTAL SCIENCE

### Graduation Requirements

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Major requirements outlined in the previous section of this Calendar. A minimum program GPA of 2.00 is required for graduation. In addition, 48h of courses offered to fulfill requirements 1-10 outlined below must be completed with a minimum grade of C-. ENVS students must declare a minor in only one subject. Courses used in the ENVS major can also be used for minor credit.

### Program Requirements

Students must complete 81 credit hours (81h) in the Major Program as follows:

1. 9h of Biology: BIOL 1113, BIOL 1123, BIOL 2053.
2. 3h from BIOL 2033, BIOL 3373 or BIOL 4543.
3. 3h of Biology at or above the BIOL 3000-level.
4. 6h of CHEM 1013/CHEM 1023 or CHEM 1113/CHEM 1123.
5. 3h of Organic Chemistry: CHEM 2513.
6. 3h of Analytical Chemistry from CHEM 2813 or CHEM 2853.
7. 18h of the following Environmental Science courses: ENVS 1013, ENVS 1023, ENVS 2523 (or an approved alternative field course), ENVS 3423, ENVS 4423, ENVS 4613.
8. 3h of Environmental courses from ENVS 3113; ENVS 3503; ENVS 3513; HIST 2283; ESST 2013; POLS 3213, POLS 3223, POLS 3883.
9. 9h of Geology: GEOL 1013, GEOL 1023, GEOL 2703.
10. 6h of Geology Electives from GEOL 2043, GEOL 2133, GEOL 2753, GEOL 3103, GEOL 3723, GEOL 3823, GEOL 3843, GEOL 4713.
11. 9h of "Advanced Science" from any GEOL, BIOL, CHEM, ENVS at the 2000+ level, as well as the following courses POLS 3213, POLS 3883, POLS 4843 HIST 2283, ESST 2003, ESST 2013, ESST 3523 or APSC 3413.

12. 6h of Statistics from MATH 1253/MATH 2243 or MATH 1253/MATH 2253 or MATH 2233/MATH 2243 or MATH 2213/MATH 2223.
13. 3h of Physics from PHYS 1013, PHYS 1053, PHYS 1563.

## DOUBLE MAJOR: ENVIRONMENTAL SCIENCE AS FIRST MAJOR

**Graduation Requirements**

In addition to the Program Requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar. A minimum program GPA of 2.00 is required for graduation.

**Program Requirements**

1. Students must complete all the ENVS major program requirements.
2. Students must complete the 2nd major requirements for the chosen program. Specific courses that are common between 1st and 2nd majors will be counted towards both degrees. Other course requirements must be unique to each degree. Students should meet with both the EVNS and 2nd major advisors to discuss requirements before enrolment.

## DOUBLE MAJOR: ENVIRONMENTAL SCIENCE AS SECOND MAJOR

Note: A 2nd major in ENVS will not meet the criteria for professional registration as an Environmental Professional (EP) with EcoCanada.

**Graduation Requirements**

In addition to the Program Requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements or the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar. A minimum program GPA of 2.00 is required for graduation.

**BSc Students 2nd Major Program Requirements**

Students must complete a minimum of 30 credit hours (30h) in Environmental Science as follows:

1. 12h from ENVS.
2. 18h from BIOL, CHEM, GEOL, excluding BIOL 1813, BIOL 1823, CHEM 1053, GEOL 1033, GEOL 1073. These courses must be from two disciplines that are not the first major.

**BA Students 2nd Major Program Requirements**

Students must complete a minimum of 36 credit hours (36h) in Environmental Science as follows:

1. 12h from ENVS.
2. 24h from BIOL, CHEM, GEOL, excluding BIOL 1813, BIOL 1823, CHEM 1053, GEOL 1033, GEOL 1073.

## MINOR IN ENVIRONMENTAL SCIENCE

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24h in the minor program, while BSc students completing a minor are required to complete a minimum of 18h in the minor program. Any ENVS courses will be accepted, as well as environment-related courses in other disciplines including GEOL 2703, GEOL 2753, GEOL 3723, GEOL 3843, GEOL 4713, HIST 2283, ESST 2013, POLS 3213, POLS 3883, BIOL 2033, BIOL 2043, BIOL 2053, BIOL 3293, BIOL 3363, BIOL 3373, BIOL 3573, BIOL 3753, CHEM 2513, CHEM 2853. A minimum of 6h must be ENVS coded courses and a minimum of 6h must be at the 2000 level or higher. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

## MINORS FOR ENVIRONMENTAL SCIENCE MAJORS

Environmental Science majors may declare a minor in one subject in which 18h of courses are complete.

# Ethnocultural Diversity Studies

Office of the Dean of Arts; Beveridge Arts Centre
Coordinator: Dr. James Whidden (jamie.whidden@acadiau.ca)

Program Offered**:** Minor

## MINOR IN ETHNOCULTURAL DIVERSITY STUDIES

Multidisciplinary Minors offer an alternative to completing the minor requirements for a degree program in a single discipline. The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a multidisciplinary minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A Minor in Ethnocultural Diversity Studies requires the completion of at least 6h chosen from CREL 1213/CREL 1223, IDST 1213, IDST 1223, and SOCI 1113 with the balance of the minor courses being chosen from the list below. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses count towards the minor in Ethnocultural Diversity Studies: CLAS 2823, CREL 1213/CREL 1223, CREL 2443, ENGL 3663, ENGL 3673, ENGL 3683, FRAN 3513, HIST 1913, HIST 2073, HIST 2303, HIST 2583, HIST 2603, HIST 2733, HIST 3423, HIST 3453, HIST 3613, IDST 1213, IDST 1223, MUSI 2063, POLS 1403, POLS 3063, POLS 3303, POLS 3483, POLS 3513,

POLS 3773, SOCI 1113, SOCI 2113, SOCI 2123, SOCI 2153, SOCI 2413, SOCI 2533, SOCI 2853, SOCI 3133, SOCI 3373, WGST 4913.

## French Studies/Études Françaises

Languages and Literatures; Beveridge Arts Centre
Ph: (902) 585-1500; Fax: (902) 585-1070; http://languages.acadiau.ca/

Programs Offered**:** Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Minor, Certificate in French Proficiency

All students registering for the first time in a French course at Acadia must take a placement test. The department reserves the right to place students at the level of study appropriate to their linguistic abilities. Misrepresenting linguistic abilities will be considered an infringement of academic integrity.

A student who has completed a given language course at Acadia or who has received a transfer credit for a given language course may not subsequently enrol for credit at the same or a lower level.

Students who have completed NS Core French 9 or NS Core French 10 (or a similar level from another province or country) will normally register in FRAN 1113, subject to the placement test and/or permission. Students who have completed NS Core or Integrated French 11 or NS Core or Integrated French 12 (or a similar level from another province or country) will normally register in FRAN 1213, subject to the placement test and/or permission.

Students who have completed NS Immersion French 11 or NS Immersion French 12 (or a similar level from another province or country) will normally register in FRAN 1613, subject to the placement test and/or permission. Students who are francophones or who have completed CSAP French 11 or 12 (or a similar level from another province or country) will normally register in FRAN 2013, subject to the placement test and/or permission. Two courses (e.g., FRAN 1213, 1223) may not be taken simultaneously.

### HONOURS IN FRENCH

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) in the Honours program as follows:

1. FRAN 2013, FRAN 2023, FRAN 2113, FRAN 2123, FRAN 407T/FRAN 408T.
2. 3h from FRAN 2713 or FRAN 3733.
3. 3h from FRAN 3323, FRAN 3513, FRAN 3523, FRAN 3633, FRAN 3643, FRAN 4613 (French Canadian Literature).
4. 3h from FRAN 3133, FRAN 3203, FRAN 3213, FRAN 3443, FRAN 3703, FRAN 4553, FRAN 4713, FRAN 4823, FRAN 4833, FRAN 4913, FRAN 4923 (French Literature).
5. 3h from FRAN 3013, FRAN 3023, FRAN 3503, FRAN 3743, FRAN 4003, FRAN 4203 (Advanced Language).
6. 6h FRAN courses at the 4000-level.
7. 12h FRAN courses at the 3000/4000-level.
8. 6h from FRAN 1213-1223, FRAN 1613-1623, FRAN 2153-2163. Students who commence their French program in FRAN 2013-2023 will substitute 6h at the 3000-level for this requirement.

### MAJOR IN FRENCH

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 45 credit hours (45h) in the Major program as follows:

1. FRAN 2013, FRAN 2023, FRAN 2113, FRAN 2123.
2. 3h from FRAN 2713 or FRAN 3733.
3. 3h from FRAN 3323, FRAN 3513, FRAN 3523, FRAN 3633, FRAN 3643, FRAN 4613 (French Canadian Literature).
4. 3h from FRAN 3133, FRAN 3203, FRAN 3213, FRAN 3443, FRAN 3703, FRAN 4553, FRAN 4713, FRAN 4823, FRAN 4833, FRAN 4913, FRAN 4923 (French Literature).
5. 3h from FRAN 3013, FRAN 3023, FRAN 3503, FRAN 3743, FRAN 4003, FRAN 4203 (Advanced Language).
6. 6h FRAN at the 4000-level.
7. 9h FRAN at the 3000/4000-level.
8. 6h from FRAN 1213/FRAN 1223, FRAN 1613/FRAN 1623, FRAN 2153/FRAN 2163. Students who commence their French program in FRAN 2013/FRAN 2023 will substitute 6h at the 3000-level for this requirement.

### DOUBLE MAJOR IN FRENCH

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**
Students must complete a minimum of 42 credit hours (42h) in the Major program as follows:

1. FRAN 2013, FRAN 2023, FRAN 2113, FRAN 2123.
2. 3h from FRAN 2713 or FRAN 3733.
3. 3h from FRAN 3323, FRAN 3513, FRAN 3523, FRAN 3633, FRAN 3643, FRAN 4613 (French Canadian Literature).
4. 3h from FRAN 3133, FRAN 3203, FRAN 3213, FRAN 3353, FRAN 3443, FRAN 3703, FRAN 4553, FRAN 4713, FRAN 4823, FRAN 4833, FRAN 4913, FRAN 4923 (French Literature).
5. 3h from FRAN 3013, FRAN 3023, FRAN 3503, FRAN 3743, FRAN 4003, FRAN 4203 (Advanced Language).
6. 6h FRAN at the 4000-level.
7. 6h FRAN at the 3000/4000-level.
8. 6h from FRAN 1213/FRAN 1223, FRAN 1613/FRAN 1623, FRAN 2153/FRAN 2163. Students who commence their French program in FRAN 2013/FRAN 2023 will substitute 6h at the 3000-level for this requirement.

Note: Some courses have been designed with specific double major programs in mind, although they are open to all qualified students.

Students with a keen interest in languages who already possess strong skills in French, German, or Spanish may wish to consider pursuing a major in one language with a double minor in the other two. Please note that it is only possible to meet the requirements for this combination within four years if an appropriate choice of credits is made from the beginning of the first year. You should consult as early as possible with a member of Languages and Literatures if you are considering this course of study.

## PROGRAM OF PROFICIENCY IN FRENCH

The goal of this program is for Acadia undergraduates to acquire a functional command of French by upgrading the four basic language skills over a four-year period. The program normally consists of 21h of French courses: FRAN 2013, FRAN 2023, FRAN 2713 or FRAN 3733, FRAN 2153, FRAN 2163, and FRAN 3153, FRAN 3163. In cases where advanced students are placed directly into FRAN 3153/ FRAN 3163, the requirement to take FRAN 2153/FRAN 2163 will be waived. An external, internationally recognized examination follows the termination of the last course in the sequence. A maximum of 6h may be transferred from another program.

## CERTIFICATE IN FRENCH PROFICIENCY (WITH AN OPTION FOR FRENCH TEACHERS)

***Please note: The Certificate in French Proficiency Program will not be offered in 2025-2026.***
Students must complete a minimum of 30h. Students entering the program will take a placement test to determine the level of entry. In exceptional cases, students with little or no knowledge of French may be placed in FRAN 1113, FRAN 1123 (true beginners), but must in this case complete 39 credit hours (FRAN 1113, FRAN 1123, and FRAN 1213). Advanced students will receive permission to substitute higher-level courses for certain requirements; however, all students must complete FRAN 3733 to achieve the Certificate.

Required:
FRAN 1223, FRAN 2013, FRAN 2023, FRAN 2163, FRAN 2713, FRAN 3153, FRAN 3733, FRAN 4403 or FRAN 4413 and two electives from the list below.

Electives:
FRAN 3163, FRAN 3213, FRAN 3513, FRAN 3523, FRAN 3633, FRAN 3703, FRAN 3743, FRAN 4003, FRAN 4413, FRAN 4423, FRAN 4553

- FRAN 4403 or FRAN 4413 is required for French teachers. Students in the general proficiency program may substitute 3h of electives.
- Students are required to take an external, internationally recognized examination (*the Test de connaissance du français*) which assesses the four language skills, following termination of the last course in the sequence.
- Up to 12 credit hours (12h) may be transferred from other programs. All courses must be completed with a minimum grade of C- and students must obtain a minimum global score of B1 on the TCF to earn the certificate.
- When offered through the Acadia French Summer Institute, these courses are not open to undergraduates.

**International Exchanges at a French-Language University**
It is strongly recommended that major, honours, and double major students spend the third year of the four-year program in a French-speaking university, in Québec or in France. Students may take part in a direct exchange program at the Université François Rabelais de Tours (France) and spend one or two semesters studying full-time in Tours (France). Double major BBA/French students participate in a specific exchange program with Groupe ICN, a highly competitive school affiliated with the Université de Nancy (France), where they may obtain a DIM (Diplôme International de Management). Other options, however, are available for business students on an ad hoc basis. The French section will help students wishing to study elsewhere make the necessary arrangements. For English-speaking students intending to study in a French-language Canadian university (and especially in the case of immersion programs) government grants may be available (see Immersion Courses below).

Existing exchange agreements with the universities of Poitiers and Rouen in France make available two lecteur/lectrice positions per year for graduating students. These salaried positions provide a unique opportunity for well-qualified graduating students to enhance their formal academic training by spending a year working in France as a teaching assistant, gaining valuable first-hand experience of French life and culture.

**Immersion Courses**
In the case of spring and summer immersion programs, 6h of elective arts credit may be granted by Acadia. These elective credits may

in some cases be used to satisfy the Arts Core requirement. Please check with the French section for further information. Applications for bursaries normally have to be submitted to the provincial Department of Education by February 15th of each year.

### MINOR IN FRENCH

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in French are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

## Geology

Department of Earth and Environmental Science; Huggins Science Hall
Ph: (902) 585-1208; ees@acadiau.ca

Programs Offered: Bachelor of Science with Honours (BScH), Bachelor of Science with Major (BSc), Second Major, Minor

**Field Methods and Field School**

Every Geology Major is required to participate in GEOL 2083 (Field Methods), given after spring examinations in GEOL 1013, GEOL 1023, GEOL 2133 and GEOL 2043 have been completed with minimum grades of C-. GEOL 4083 (Advanced Field School) is held for about twelve days preceding and continuing into the fall term; GEOL 4303 (Carbonate Sedimentology Field School) is held after exams in winter term.

### THE GEOLOGY CORE (36 credit hours)

GEOL 1013, GEOL 1023, GEOL 2043, GEOL 2083, GEOL 2133, GEOL 2213, GEOL 2703, GEOL 3303, GEOL 3403, GEOL 3503, GEOL 3603, GEOL 4013.

### HONOURS IN GEOLOGY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. All courses presented to satisfy requirements 1-3 below must be completed with a minimum grade of B-.

**Program Requirements**

Students must complete a minimum of 75 credit hours (75h) in the Honours Program as follows:

1. The Geology Core (36h).
2. GEOL 407T/GEOL 408T.
3. 15h of Geology courses (or prescribed cognate courses: BIOL 2033, CHEM 2853, ENVS 3423, and ENVS 4613). In total a minimum of 18h in the Geology Core and Geology elective courses or cognate courses must be at the 3000-level or higher.
4. CHEM 1013 and CHEM 1023.
5. 6h MATH.
6. PHYS 1053 and PHYS 1063 (or equivalent with lab).

- Participation in departmental seminars is required. This program leads to post-graduate study in geology and can satisfy requirements for registration in professional bodies.
- This program provides a curriculum that allows the student to satisfy the provincially legislated knowledge requirements for professional registration as a ‘Geoscientist’.
- Students intending careers in paleontology should offer biology. Computer science courses are recommended to all students.

### MAJOR IN GEOLOGY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Major) requirements outlined in the previous section of this Calendar. Also, no more than 3h non-lab geology courses at the 1000/2000-level may be offered toward the Major.

**Program Requirements**

Students must complete a minimum of 69 credit hours (69h) in the Major Program as follows:

1. The Geology Core (36h).
2. 15h of Geology courses (or prescribed cognate courses), each completed with a minimum grade of C-. Cognate courses are BIOL 2033, CHEM 2853, ENVS 3423 and ENVS 4613. In total a minimum of 18h in the Geology Core and Geology elective courses or cognate courses must be at the 3000-level or higher.
3. CHEM 1013 and CHEM 1023.
4. 6h MATH.
5. PHYS 1053 and PHYS 1063 (or equivalent with lab).

- This program provides a curriculum that allows the student to satisfy the provincially legislated knowledge requirements for professional registration as a ‘Geoscientist’.
- Students intending careers in paleontology should offer biology. Computer science courses are recommended to all students.

## DOUBLE MAJOR: GEOLOGY AS FIRST MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) for the First Major in Geology as follows:

1. All of the following (21h): GEOL 1013, GEOL 1023, GEOL 2043, GEOL 2083, GEOL 2133, GEOL 2703, GEOL 3603.
2. 21h additional Geology courses.
3. In total a minimum of 18h in the Geology Core and Geology elective courses or cognate courses must be at the 3000-level or higher.
4. 6h CHEM.
5. 6h MATH.

## DOUBLE MAJOR: GEOLOGY AS SECOND MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy their First Major e.g. the Bachelor of Science (Double Major) requirements, the Bachelor of Arts (Double Major) requirements, or the requirements of any other First Major as outlined in the previous sections of this Calendar.

**Program Requirements**

For students who require 36 credit hours to complete a second major:
Students must complete a minimum of 36 credit hours (36h) to complete the Second Major in Geology as follows:

1. All of the following (21h): GEOL 1013, GEOL 1023, GEOL 2043, GEOL 2083, GEOL 2133, GEOL 2703, GEOL 3603.
2. 15h additional Geology courses at the 2000 level or higher.

- Note: No more than 6 credit hours overall may be at the 1000 level.

For students who require 30 credit hours to complete a second major:
Students must complete a minimum of 30 credit hours (30h) to complete the Second Major in Geology as follows:

1. All of the following (21h): GEOL 1013, GEOL 1023, GEOL 2043, GEOL 2083, GEOL 2133, GEOL 2703, GEOL 3603.
2. 9h additional Geology courses at the 2000 level or higher.

- Note: No more than 6 credit hours overall may be at the 1000 level.

Please be aware that a Second Major in GEOL does not automatically fulfill all the requirements to apply for Professional Registration (PGeo or PEnvGeo). Please consult the GEOL/ENGO advisor in EES to plan courses if you want to be eligible to apply for registration.

## MINOR IN GEOLOGY

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Geology are required to complete a minimum of 18 credit hours (18h) in the minor program. No more than 6 credit hours at the 1000 level can be included in the GEOL minor. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

## MINORS FOR GEOLOGY MAJORS

For Geology majors, a minor is considered to be either (a) any subject outside of the Core in which the student has completed 6 courses; or (b) a “General Science Minor” in which a student has completed at least 9 courses (27h) from APSC, BIOL, CHEM, COMP, ENVS, MATH, and PHYS (consisting of the required 6 credit hours (6h) each of CHEM, MATH, and PHYS and 9 credit hours (9h) of any of the above subjects).

# German Studies/Germanistik

Languages and Literatures; Beveridge Arts Centre
Ph: (902) 585-1500; Fax: (902) 585-1070; http://languages.acadiau.ca/

Programs Offered**:** Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Program of Proficiency in German, Minor in German

The German Studies Program offers students a combination of language, literature and culture courses towards a major or minor degree in German. In their first year, students acquire basic communication skills in German. After three years of study students achieve the necessary language skills to fully function in a German-speaking environment. Extracurricular cultural activities such as German Club and Immersions enhance the learning experience.

Students wishing to Major or complete an Honours program in German must successfully complete an approved course of study in Acadia’s Year Abroad Program at the University of Freiburg. (See the section “International Exchanges at a German Language University and Further Opportunities” below).

## HONOURS IN GERMAN

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) (48h German courses and GERM 407T/GERM 408T) in the Honours Program as follows:

1. GERM 1013, GERM 1023, GERM 2013, GERM 2023, GERM 3013, GERM 3023.
2. A minimum of 15h abroad through the Canadian Year in Freiburg exchange program at the University of Freiburg and/or its language institute, under consultation with the German Studies Advisor.
3. Remaining hours from the following under consultation with the German Studies Advisor: GERM 2513, GERM 2523, GERM 2813, GERM 2823, GERM 2913, GERM 2923, GERM 3313, GERM 3323, GERM 3413, GERM 3423, GERM 3503, GERM 3603, GERM 3703, GERM 3803, GERM 4813, GERM 4823, IDST 3463, IDST 3473.
4. GERM 407T/GERM 408T (Honours Thesis).

## MAJOR IN GERMAN

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 42 credit hours (42h) in the Major Program as follows:

1. GERM 1013, GERM 1023, GERM 2013, GERM 2023, GERM 3013, GERM 3023.
2. A minimum of 15h abroad through the Canadian Year in Freiburg exchange program at the University of Freiburg and/or its language institute, under consultation with the German Studies Advisor.
3. Remaining hours from the following under consultation with the German Studies Advisor: GERM 2513, GERM 2523, GERM 2813, GERM 2823, GERM 2913, GERM 2923, GERM 3313, GERM 3323, GERM 3413, GERM 3423, GERM 3503, GERM 3603, GERM 3703, GERM 3803, GERM 4813, GERM 4823, IDST 3463, IDST 3473.

## DOUBLE MAJOR IN GERMAN

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

1. GERM 1013, GERM 1023, GERM 2013, GERM 2023, GERM 3013, GERM 3023.
2. A minimum of 15h abroad through the Canadian Year in Freiburg exchange program at the University of Freiburg and/or its language institute, under consultation with the German Studies Advisor.
3. Remaining hours from the following under consultation with the German Studies Advisor: GERM 2513, GERM 2523, GERM 2813, GERM 2823, GERM 2913, GERM 2923, GERM 3313, GERM 3323, GERM 3413, GERM 3423, GERM 3503, GERM 3603, GERM 3703, GERM 3803, GERM 4813, GERM 4823, IDST 3463, IDST 3473.

Students with a keen interest in languages who already possess strong skills in French, German, or Spanish may wish to consider pursuing a major in one language with a double minor in the other two. Please note that it is only possible to meet the requirements for this combination within four years if an appropriate choice of credits is made from the beginning of the first year. You should consult as early as possible with a member of Languages and Literatures if you are considering this course of study.

## PROGRAM OF PROFICIENCY IN GERMAN

The goal of this program is to provide students with a high level of language proficiency in German, measured by internationally recognized language certification criteria.

**Proficiency Program Requirements**

1. All of the following: GERM 1013, GERM 1023, GERM 2013, GERM 2023, GERM 2513, GERM 2523, plus additional courses in consultation with the German Advisor, and a comprehensive examination at the minimum level of B1.

Levels of German proficiency for which testing is available to students under consultation with the German Studies Advisor:

1. Goethe Zertifikat A1 (level one), Goethe Zertifikat A2 (level 2), on the six-level scale of competence as defined by the Common European Framework of Reference for Languages.
2. Goethe Zertifikat B1 (level three); Goethe Zertifikat B2 (level 4), on the CEFR scale.
3. Test Deutsch als Fremdsprache (B2/C1), the language certification that facilitates university admission and is recognized by every university in Germany.

**International Exchanges and Further Opportunities**

Major students spend their third year of the four-year program studying abroad full-time for two semesters, or (with permission) for one semester in Freiburg, Germany, under the auspices of the Canadian Coordinator. Students take a fixed curriculum of German courses at the University of Freiburg's Language Institute, plus additional courses at the University of Freiburg, and/or courses administered by the program, to fulfill their credit requirements for the academic year. Students with an overall grade point average of 85% and above

can apply for an Academic Recognition Award (Awards currently range from $500 to 1,500). Top students may apply for the limited number of the prestigious State of Baden-Württemberg Study Abroad Scholarship which provides a financial bursary for the course of the exchange.

Upon their return from the exchange, students are encouraged to take advantage of opportunities offered through the prestigious programs of the German Academic Exchange Service (DAAD) and the German Pedagogical Exchange Service (PAD).

DAAD:

- Top students can apply to the DAAD Young Ambassador Program to become the DAAD Young Ambassador at Acadia University for a given academic year (one student can be selected). The Young Ambassador will promote German language and culture, by organizing and participating in cultural events at their university and in the broader community. Prior to commencing their activities, Young Ambassadors participate in a summer training session organized and financed by the DAAD.
- Students of Science/Engineering can apply during their studies for DAAD RISE (Research Internships in Science and Engineering) Summer research internships at top German universities and research institutions.

PAD:

- In their fourth year of the German Major students can apply to the PAD Foreign Language Assistant program, to work as teaching assistants in a German high school after having received their Bachelor's Degree. Assistantships are awarded for one school-year; applications for a one-year continuation are possible.

### MINOR IN GERMAN

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Biology are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

### Cross-Listed Courses

The following course may be counted towards the major credit in German: IDST 3463, IDST 3473.

## Health Sciences and Humanities

Office of the Dean of Science, Huggins Science Hall
Coordinators: Matthew Hazel (matthew.hazel@acadiau.ca) and Dr. Melanie Coombs (melanie.coombs@acadiau.ca).

Program Offered: Minor

### MINOR IN HEALTH SCIENCES AND HUMANITIES

Multidisciplinary minors offer an alternative to completing the minor requirements for a degree program in a single discipline. Arts and Science majors are required to complete a minimum of 24 credit hours (24h) in the minor program. The requirements for a minor vary by faculty and program(s) of study. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in Health Sciences and Humanities requires the completion of 12h from the Faculty of Pure and Applied Science (List A) and 12h from the Faculty of Arts (List B). No more than 12h can be at the 1000-level. All courses offered towards this minor must be completed with a minimum grade of C-.

#### Cross-Listed Courses

The following Science courses may be counted as credit in Health Sciences and Humanities (List A): BIOL 1113, BIOL 1123, BIOL 1813, BIOL 1823, BIOL 1853, BIOL 1863, BIOL 2053, BIOL 2253, BIOL 2813, BIOL 2823, BIOL 3553, KINE 1413, CHEM 1013, CHEM 1023, CHEM 1113, CHEM 1123, CHEM 2513, CHEM 2713, PSYC 1013, PSYC 1023, PSYC 1113, PSYC 1123, PHYS 1013, PHYS 1023, PHYS 1053, PHYS 1063, MATH 1013, MATH 1213, MATH 1223, MATH 2233, MATH 2243.

The following Arts courses may be counted as credit in Health Sciences and Humanities (List B): ENGL 1213, ENGL 1223, ENGL 1413, ENGL 1423, HIST 2613, HIST 2623, PHIL 1413, PHIL 2323, PHIL 2713, PHIL 2913, PHIL 2923, PHIL 3213, SOCI 1033, SOCI 2323, SOCI 2363, SOCI 3263, SOCI 3643, SOCI 4223, SOCI 4263.

## History

Department of History and Classics; Beveridge Arts Centre
Ph: (902) 585-1504; Fax: (902) 585-1070; history@acadiau.ca

History expands our global perspective through a study of the histories of the peoples and cultures of Europe, the Middle East, Africa and Asia. North America, of course, receives due attention, especially the political and social histories of Canada and the United States. History also offers specialized courses in the history of women, war, medicine, and the environment, and maintains the New England Planter Studies Centre.

Programs Offered**:** Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Minor

## HONOURS IN HISTORY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 60 credit hours (60h) in the Honours Program as follows:

1. HIST 1003, and an additional 6h of History courses at the 1000-level.
2. 18h of History courses at the 3000-level.
3. HIST 4903, HIST 407T/HIST 408T, and an additional 6h of History courses at the 4000-level.
4. 18h of History courses.
5. Fulfill department breadth requirement.
6. Only 9h of History courses at the 1000-level may be counted for major credit.

## HONOURS IN HISTORY WITH DOUBLE MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) in the Honours program as follows:

1. HIST 1003, and an additional 6h of History courses at the 1000-level.
2. 18h of History courses at the 3000-level.
3. HIST 4903, HIST 407T/HIST 408T, and an additional 6h of History courses at the 4000-level.
4. 12h of History courses.
5. Fulfill department breadth requirement.
6. Only 9h of History courses at the 1000-level may be counted for major credit.

## MAJOR IN HISTORY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 48 credit hours (48h) in the Major program as follows:

1. HIST 1003, and an additional 6h of History courses at the 1000-level.
2. 18h at the 3000-level.
3. 21h of History courses.
4. Fulfill department breadth requirement.
5. Only 9h of History courses at the 1000-level may be counted for major credit.

## DOUBLE MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

The requirements for a First and Second Major in History are identical. Students must complete 42h in the Double Major program as follows:

1. HIST 1003, and an additional 6h of History courses at the 1000-level.
2. 18h at the 3000-level.
3. 15h of History courses.
4. Fulfill department breadth requirement.
5. Only 9h of History courses at the 1000-level may be counted for major credit.

## MINOR IN HISTORY

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

**Department Breadth Requirement**

Students will be required to take 6hrs from each of the following three clusters. Courses from the breadth requirement can be used to fulfill program requirements:

**North America**: HIST 1913, HIST 2263, HIST 2303, HIST 2313, HIST 2343, HIST 2353, HIST 2403, HIST 2463, HIST 2483, HIST 2493, HIST 2503, HIST 2553, HIST 2593, HIST 2603, HIST 2733, HIST 2773, HIST 2783, HIST 2803, HIST 3143, HIST 3323, HIST 3343, HIST 3363, HIST 3383, HIST 3393, HIST 3433, HIST 3493, HIST 3533, HIST 3553, HIST 3603, HIST

3613, HIST 3623, HIST 3653, HIST 3663, HIST 3673, HIST 3683, HIST 3853, HIST 4313, HIST 4323, HIST 4343

**World**: HIST 1043, HIST 1413, HIST 1423, HIST 1533, HIST 1613, HIST 1713, HIST 1813, HIST 1823, HIST 2033, HIST 2043, HIST 2073, HIST 2123, HIST 2133, HIST 2393, HIST 2533, HIST 2543, HIST 2563, HIST 2743, HIST 2753, HIST 3113, HIST 3133, HIST 3243, HIST 3253, HIST 3263, HIST 3273, HIST 3413, HIST 3423, HIST 3443, HIST 3453, HIST 3463, HIST 3473, HIST 3483, HIST 3503, HIST 3543, HIST 3563, HIST 3573, HIST 3583, HIST 3593, HIST 3643, HIST 3713, HIST 3723, HIST 3743, HIST 3763, HIST 3823, HIST 4113, HIST 4173, HIST 4213, HIST 4216, HIST 4223

**Thematic**: HIST 1713, HIST 1813, HIST 1823, HIST 2003, HIST 2123, HIST 2133, HIST 2203, HIST 2213, HIST 2263, HIST 2283, HIST 2493, HIST 2553, HIST 2603, HIST 2613, HIST 2623, HIST 3143, HIST 3163, HIST 3203, HIST 3243, HIST 3283, HIST 3293, HIST 3303, HIST 3323, HIST 3383, HIST 3393, HIST 3493, HIST 3613, HIST 3643, HIST 3683, HIST 3713, HIST 3723, HIST 3733, HIST 3753, WGST 4913

### Cross-Listed Courses

The following courses may be counted towards major credit in History: CDNS 2503, CDNS 2513, CLAS 1113, CLAS 1123, CLAS 2663, CLAS 2673, CLAS 2823, CLAS 3333, CREL 3123, IDST 1113, IDST 1123, IDST 1213, IDST 2813, IDST 2823, WGST 2913, WGST 3503, WGST 4913.

## International Development Studies

Office of the Dean of Arts; Beveridge Arts Centre
Coordinators: Drs. Rachel Brickner (rachel.brickner@acadiau.ca) and James Brittain (james.brittain@acadiau.ca)

Program Offered**:** Minor

### MINOR IN INTERNATIONAL DEVELOPMENT STUDIES

Multidisciplinary Minors offer an alternative to completing the Minor requirements for a degree program in a single discipline. The requirements for a Minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the Minor program, while BSc students completing a Multidisciplinary Minor are required to complete a minimum of 18 credit hours (18h) in the Minor program. Students pursuing a Minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A Minor in International Development Studies requires the completion of:

1. A minimum of 6h from courses with a regional focus: HIST 2043, HIST 2393, HIST 2753, HIST 3423, HIST 3443, HIST 3453, HIST 3563, POLS 3693, 4983, SOCI 3043, SPAN 3523.
2. 3h from POLS 4293, POLS 4883, SOCI 4123.
3. The balance of the Minor should be chosen from the list of courses below.

- No more than 12h of the Minor can be in a single discipline. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted towards the minor in International Development Studies: ECON 2713, ECON 2813, ECON 2823, ECON 3143, ECON 2213, ECON 4213, ECON 4813, ESST 2013, ESST 3503, HIST 2043, HIST 2073, HIST 2393, HIST 2593, HIST 2753, HIST 3423, HIST 3443, HIST 3453, HIST 3563, IDST 1113, IDST 1123, IDST 2213, IDST 2223, IDST 4186, POLS 3173, POLS 3183, POLS 3483, POLS 3513, POLS 3693, POLS 3773, POLS 3973, POLS 4293, POLS 4883, POLS 4983, SOCI 2113, SOCI 2563, SOCI 3043, SOCI 3133, SOCI 3543, SOCI 4123, SPAN 3523, WGST 2913.

## Kinesiology

School of Kinesiology; War Memorial Gymnasium
Ph: (902) 585-1307; Fax**:** (902) 585-1702; http://kinesiology.acadiau.ca/

Kinesiologists are university graduates who have acquired knowledge about the biophysical, socio-cultural, and psychomotor bases of human movement and physical activity. The Bachelor of Kinesiology degree program at Acadia requires students to complete core courses in each of these sub-disciplines, and to complete complementary courses from the Faculty of Arts and the Faculty of Pure and Applied Sciences. Additionally, the degree program provides an opportunity for students to elect courses which represent an in-depth interest in a single sub-discipline, an interest in a professional application or an interest in kinesiology in its broadest sense. Acadia provides many opportunities for students to gain practical experience in research, leadership and instruction, athletic therapy, etc., and encourages students to take advantage of these opportunities. Acadia's Bachelor of Kinesiology (BKIN) and Bachelor of Kinesiology with Honours (BKIH) programs are accredited by "CCUPEKA", the Canadian Council of University Physical Education and Kinesiology Administrators. CCUPEKA is the primary academic body for Kinesiology in Canada and is responsible for the nationally recognized program of accreditation of university programs in the discipline.

#### Exploring Specific Areas in Kinesiology

The core program provides students with a comprehensive foundation in each of the sub-disciplines of kinesiology. Students can explore an academic option, including the Honours option (for students interested in gaining research experience), the CATA Accredited Athletic Therapy option, the Exercise Science & Training option, the Biology option, the Psychology option or the Nutrition &

Dietetics option. Students could choose groupings of recommended courses in a particular area of the profession such as a) Teaching, Leadership & Coaching, b) Health Promotion, Wellness & Health Behaviour Change, and c) Adapted Physical Activity. Faculty advisors can provide suggestions as to course choices that support advanced study in one of these areas of interest. Entry to certain elective courses in the areas of interest, notably courses requiring practical experience, are sometimes limited and enrolment may be competitive. Students who demonstrate particular interest and aptitude in research are encouraged to enter the Honours program. This choice is normally made at the end of the second year of study.

Programs available: Bachelor of Kinesiology with Honours (BKIH), Bachelor of Kinesiology (BKIN)

## THE KINESIOLOGY CORE (51 credit hours)

KINE 1013, KINE 1113, KINE 1213, KINE 1243, KINE 1333, KINE 1413, KINE 2033, KINE 2253, KINE 2413, KINE 2423, KINE 2433, KINE 3013, KINE 3053, KINE 3213, KINE 3363, KINE 4633, 3h activity lab courses.

## BACHELOR OF KINESIOLOGY WITH HONOURS

### Graduation Requirements

Students must complete the program as outlined below. To graduate, a minimum GPA of 3.00 is required in the Kinesiology Core, minimum grades of B- are required in the Kinesiology Core and Communications 1013, and a minimum overall program GPA of 3.00 is required.

### Program Requirements

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. All of the following (21h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, KINE 3163, KINE 407T, KINE 408T, MATH 1253.
3. 9h of Kinesiology electives (6h must be at the 3000-level or higher).
4. 6h from the Faculty of Arts.
5. 12h from the Faculty of Arts or Faculty of Pure and Applied Science.
6. 21h of university electives.

- An overall minimum cumulative GPA of 3.00 is required for application to this option.

## BACHELOR OF KINESIOLOGY

### Graduation Requirements

Students must complete the program as outlined below. To graduate, minimum grades of C- are required in the Kinesiology Core and Communications 1013, and a minimum overall program GPA of 2.00 is required.

### Program Requirements

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. All of the following (12h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, MATH 1253.
3. 18h of Kinesiology electives (9h must be at the 3000-level or higher).
4. 6h from the Faculty of Arts.
5. 12h from the Faculty of Arts or Faculty of Pure and Applied Science.
6. 21h university electives.

## BACHELOR OF KINESIOLOGY WITH HONOURS (ATHLETIC THERAPY OPTION)

### Graduation Requirements

Students must complete the program as outlined below. To graduate, a minimum GPA of 3.00 is required in the Kinesiology Core, minimum grades of B- are required in the Kinesiology Core, Athletic Therapy Core, and Communications 1013, and a minimum overall program GPA of 3.00 is required.

### Program Requirements

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. The Athletic Therapy Core (24h): KINE 3063, KINE 3073, KINE 3413, KINE 3423, KINE 4113, KINE 4123, KINE 4843, KINE 4853.
3. All of the following (24h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, KINE 3163, KINE 3400, KINE 4013, KINE 407T, KINE 408T, and MATH 1253.
4. 6h from the Faculty of Arts.
5. 12h from the Faculty of Arts or Faculty of Pure and Applied Science.
6. 3h of university electives.

- An overall minimum cumulative GPA of 3.00 is required for application to this option.
- A maximum of 16 students will be accepted to the Athletic Therapy option each year.

## BACHELOR OF KINESIOLOGY (ATHLETIC THERAPY OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, minimum grades of C- are required in the Kinesiology Core and Communications 1013, grades of B- are required in the Athletic Therapy Core, and a minimum overall program GPA of 2.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. The Athletic Therapy Core (24h): KINE 3063, KINE 3073, KINE 3413, KINE 3423, KINE 4113, KINE 4123, KINE 4843, KINE 4853.
3. All of the following (15h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, KINE 3400, KINE 4013, and MATH 1253.
4. 6h from the Faculty of Arts.
5. 12h from the Faculty of Arts or Faculty of Pure and Applied Science.
6. 12h university electives.

- An overall minimum cumulative GPA of 3.00 is required for application to this option.
- A maximum of 16 students will be accepted to the Athletic Therapy option each year.

## BACHELOR OF KINESIOLOGY WITH HONOURS (BIOLOGY OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, a minimum GPA of 3.00 is required in the Kinesiology Core, minimum grades of B- are required in the Kinesiology Core, Biology Core, and Communications 1013, and a minimum overall program GPA of 3.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) with as follows:

1. The Kinesiology Core (51h).
2. The Biology Core (18h): BIOL 1853, BIOL 1863, BIOL 2003, one of BIOL 2033, BIOL 2043, BIOL 2053, BIOL 2073, and 6h Biology electives.
3. All of the following (21h): COMM 1013, CHEM 1013, CHEM 1023, KINE 1100, KINE 3100, KINE 3163, KINE 407T, KINE 408T, MATH 1253.
4. 9h of Kinesiology electives (6h must be at the 3000-level or higher).
5. 6h from the Faculty of Arts.
6. 15h of university electives.

- An overall cumulative GPA of 3.00 is required for admission to this option.
- A maximum of 12 students will be accepted to the Biology option each year.

## BACHELOR OF KINESIOLOGY (BIOLOGY OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, minimum grades of C- are required in the Kinesiology Core, Biology Core, and Communications 1013, and a minimum program GPA of 2.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. The Biology Core (18h): BIOL 1853, BIOL 1863, BIOL 2003, one of BIOL 2033, BIOL 2043, BIOL 2053, BIOL 2073, and 6h Biology electives.
3. All of the following (12h): COMM 1013, CHEM 1013, CHEM 1023, KINE 1100, KINE 3100, MATH 1253
4. 18h Kinesiology electives (9h must be at the 3000-level or higher).
5. 6h from the Faculty of Arts.
6. 15h university electives.

- An overall cumulative GPA of 2.75 is required for admission to this option.
- A maximum of 12 students will be accepted to the Biology option each year.

## BACHELOR OF KINESIOLOGY WITH HONOURS (EXERCISE SCIENCE & TRAINING OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, a minimum GPA of 3.00 is required in the Kinesiology Core, minimum grades of B- are required in the Kinesiology Core, Exercise Science and Training Core, and Communications 1013, and a minimum overall program GPA of 3.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. The Exercise Science & Training Core (18h): KINE 3343, KINE 3393, KINE 4013, KINE 4193, KINE 4203, KINE 4693.

3. All of the following (21h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, KINE 3163, KINE 407T, KINE 408T, MATH 1253.
4. 6h from the Faculty of Arts.
5. 12h from the Faculty of Arts or Faculty of Pure and Applied Science.
6. 12h of university electives.

- An overall minimum cumulative GPA of 3.00 is required for application to this option.
- A maximum of 18 students will be accepted to the Exercise & Training option each year.

## BACHELOR OF KINESIOLOGY (EXERCISE SCIENCE & TRAINING OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, minimum grades of C- are required in the Kinesiology Core and Communications 1013, minimum grades of B- are required in the Exercise Science & Training Core, and a minimum overall program GPA of 2.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. The Exercise Science & Training Core (18h): KINE 3343, KINE 3393, KINE 4013, KINE 4193, KINE 4203, KINE 4693.
3. All of the following (12h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, MATH 1253.
4. 6h from the Faculty of Arts.
5. 12h from the Faculty of Arts or Faculty of Pure and Applied Science.
6. 21h university electives.

- An overall minimum cumulative GPA of 3.00 is required for application to this option.
- A maximum of 18 students will be accepted to the Exercise Science & Training option each year.

## BACHELOR OF KINESIOLOGY WITH HONOURS (NUTRITION OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, a minimum GPA of 3.00 is required in the Kinesiology Core, minimum grades of B- are required in the Kinesiology Core, Nutrition Core, and Communications 1013, and a minimum overall program GPA of 3.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. The Nutrition Core (18h): NUTR 1313, NUTR 1323 and 12h of NUTR electives approved by the School of Nutrition and Dietetics.
3. All of the following (21h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, KINE 3163, KINE 407T, KINE 408T, MATH 1253.
4. 9h Kinesiology electives (6h must be at the 3000-level or higher).
5. 6h from the Faculty of Arts.
6. 15h university electives.

- An overall cumulative GPA of 3.00 is required for admission to this option.
- A maximum of 12 students will be accepted to the Nutrition option each year.

## BACHELOR OF KINESIOLOGY (NUTRITION OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, minimum grades of C- are required in the Kinesiology Core, Nutrition Core, and Communications 1013, and a minimum overall program GPA of 2.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. The Nutrition Core (18h): NUTR 1313, NUTR 1323, plus 12h of Nutrition electives approved by the School of Nutrition and Dietetics.
3. All of the following (12h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, MATH 1253.
4. 18h Kinesiology electives (9h must be at the 3000-level or higher).
5. 6h from the Faculty of Arts.
6. 15h university electives.

- An overall cumulative GPA of 2.75 is required for admission to this option.
- A maximum of 12 students will be accepted to the Nutrition option each year.

## BACHELOR OF KINESIOLOGY WITH HONOURS (PSYCHOLOGY OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, a minimum GPA of 3.00 is required in the Kinesiology Core, minimum grades of B- are required in the Kinesiology Core, Communications 1013, and Psychology 1013, 1023, and a minimum overall program GPA of 3.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. All of the following (18h): PSYC 1013, PSYC 1023, plus 12h Psychology elective courses. All PSYC courses must be completed with minimum grades of B-.
3. All of the following (21h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, KINE 3163, KINE 407T, KINE 408T, MATH 1253.
4. 9h Kinesiology electives (6h must be at the 3000-level or higher).
5. 6h from the Faculty of Arts.
6. 15h university electives.

- An overall cumulative GPA of 3.00 is required for admission to this option.
- A maximum of 12 students will be accepted to the Psychology option each year.

## BACHELOR OF KINESIOLOGY (PSYCHOLOGY OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. To graduate, minimum grades of C- are required in the Kinesiology Core, Communications 1013, and Psychology 1013, 1023, and a minimum overall program GPA of 2.00 is required.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Kinesiology Core (51h).
2. All of the following (18h): PSYC 1013, PSYC 1023, plus 12h Psychology elective courses. All PSYC courses must be completed with a minimum grade of C-.
3. All of the following (12h): BIOL 1853, BIOL 1863, COMM 1013, KINE 1100, KINE 3100, MATH 1253.
4. 18h Kinesiology electives (9h must be at the 3000-level or higher).
5. 6h from the Faculty of Arts.
6. 15h university electives.

- An overall cumulative GPA of 2.75 is required for admission to this option.
- A maximum of 12 students will be accepted to the Psychology option each year.

# Law and Society

Centre for Interdisciplinary and Language Programs; Beveridge Arts Centre
Coordinator: Dr. Erin Crandall

Law and Society is an interdisciplinary program that examines the theory, practice, and social consequences of law through a variety of research methods and modes of analysis. Students will learn to think critically about the law, legal systems both in Canada and abroad, and how the law intersects with pressing political, economic, environmental, and social issues. It is ideal for students seeking a dynamic and multidisciplinary approach to the study of law. The Law and Society Program will prepare students for career opportunities in a wide range of areas including the public service, policy analysis, judicial administration, public interest advocacy, public safety, and government relations. A degree in Law and Society can also be used as a stepping-stone to graduate studies or a professional degree such as law or education.

Programs Offered: Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Minor

## HONOURS IN LAW AND SOCIETY

**Program Requirements**

Students undertaking Honours in Law and Society must complete a minimum of 51 credit hours (51h) in Law and Society and cross-listed courses. There are 10 required courses (30h), as well as four courses (12h) that must be completed from Core Law and Society courses. The remaining three courses (9h) can be chosen from the Law and Society cross-listed courses. Of the courses completed for Honours, 21h must be at the 3000/4000-level.

**Required Law and Society Courses for Honours**

LAWS 1003 or LAWS 1013, LAWS 2003, LAWS 3003, LAWS 4003, LAWS 407T, LAWS 408T, PHIL 2813, POLS 1303 or SOCI 1013, ENGL 1413 or ENGL 1483, ENGL 1423 or ENGL 1493.

## MAJOR IN LAW AND SOCIETY

**Program Requirements**

Students undertaking a Major in Law and Society must complete 42 credit hours (42h) in Law and Society and cross-listed courses. There are eight required courses (24h), as well as four courses (12h) that must be completed from Core Law and Society courses. The remaining two courses (6h) can be chosen from the Law and Society cross-listed courses. Of the courses completed for the Major, 18h must be at the 3000/4000-level.

**Required Law and Society Courses for Major**

LAWS 1003 or LAWS 1013, LAWS 2003, LAWS 3003, LAWS 4003, PHIL 2813, POLS 1303 or SOCI 1013, ENGL 1413 or ENGL 1483, ENGL 1423 or ENGL 1493.

## SECOND MAJOR IN LAW AND SOCIETY

**Program Requirements**

Students undertaking a Second Major in Law and Society must complete 36 credit hours (36h) in Law and Society and cross-listed courses. There are six required courses (18h), as well as four courses (12h) that must be completed from the Core Law and Society courses. The remaining two courses (6h) can be chosen from the Law and Society cross-listed courses. Of the courses completed for the Second Major, 18h must be at the 3000/4000-level. The requirements for a Second Major vary by faculty and program of study. In addition to the requirements here, students pursuing a Second Major should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

**Required Law and Society Courses for Second Major**

LAWS 1003 or LAWS 1013, LAWS 2003, LAWS 3003, LAWS 4003, PHIL 2813, POLS 1303 or SOCI 1013

## MINOR IN LAW AND SOCIETY

A Minor in Law and Society has two required courses: LAWS 1003 and LAWS 2003. The remaining courses for the Minor are chosen from Law and Society courses and cross-listed courses. Other than LAWS courses, no more than 12 credit hours (12h) can be from a single discipline. The requirements for a Minor vary by faculty and program of study. In addition to the requirements outlined here, students pursuing a Minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study. BA students are required to complete a minimum of 24 credit hours (24h) for their Minor program.

**Required Law and Society Courses for Minor**

LAWS 1003, LAWS 2003

## LAW AND SOCIETY CORE COURSES

Majors, Second Majors, and Honours must complete four courses (12 credit hours) from the pool of Core Law and Society courses.
BUSI 3613, BUSI 3623, CLAS 3113, ECON 3363, HIST 2653, HIST 3303, HIST 3663, IDST 3103, IDST 3123, LAWS 3013, LAWS 3023, PHIL 2713, PHIL 3203, PHIL 3213, PHIL 3713, POLS 3063, POLS 3083, POLS 3163, POLS 3463, POLS 3563, POLS 4403, SOCI 2023, SOCI 2723, SOCI 3743

## Cross-Listed Courses

The following courses may be counted towards major credit in Law and Society:
BUSI 2993, BUSI 3323, BUSI 3613, BUSI 3623, BUSI 3643, BUSI 3753, BUSI 4313, BUSI 4663, CLAS 2733, CLAS 2823, CLAS 3113, ECON 1013, ECON 2713, ECON 3363, ECON 3413, ECON 3523, ECON 3823, ENGL 1413, ENGL 1423, ENGL 1483, ENGL 1493, ENVS 3113, ESST 2013, HIST 1533, HIST 2313, HIST 2503, HIST 2653, HIST 3303, HIST 3473, HIST 3663, IDST 3103, IDST 3123, PHIL 1413, PHIL 2313, PHIL, 2323, PHIL 2713, PHIL 2813, PHIL 2823, PHIL 2923, PHIL 3203, PHIL 3213, PHIL 3223, PHIL 3713, POLS 1303, POLS 1403, POLS 2003, POLS 2223, POLS 2683, POLS 2893, POLS 3063, POLS 3083, POLS 3163, POLS 3173, POLS 3433, POLS 3463, POLS 3503, POLS 3563, POLS 4403, POLS 4603, POLS 4803, POLS 4883, PSYC 2103, PSYC 2113, PSYC 2183, PSYC 3623, SOCI 1013, SOCI 2023, SOCI 2113, SOCI 2413, SOCI 2723, SOCI 2753, SOCI 3183, SOCI 3263, SOCI 3703, SOCI 3743, SOCI 3793, THEA 2753, THEA 2763, WGST 2913.

# Material and Visual Culture

Office of the Dean of Arts; Beveridge Arts Centre
Coordinators: Drs. Chelsea Gardner, Laurie Dalton

Material and visual culture are all around us and are integral to how we interpret and engage with the world today. This interdisciplinary minor provides a variety of courses for students to engage in questions of how material and visual culture are used, absorbed, interpreted, and produced, from a variety of academic viewpoints. Students will benefit from experiential learning and gain a critical understanding of how material and visual culture influence people, place, and space, throughout history and into the modern world. The courses taught from this perspective have been grouped together in order to create a multidisciplinary minor that emphasizes intersections between the digital and physical and draw from disciplines such as media studies, design, history, art, archaeology, museum and archival studies, geology, environmental studies, psychology, theatre, and more.

Program Offered**:** Minor

## MINOR IN MATERIAL AND VISUAL CULTURE

Multidisciplinary Minors offer an alternative to completing the Minor requirements for a degree program in a single discipline. The requirements for a Minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours

(24h) in the Minor program, while BSc students completing a multidisciplinary Minor are required to complete a minimum of 18 credit hours (18h) in the Minor program. Students pursuing a Minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

There are no required courses for the Minor in Material and Visual Culture. Students who wish to complete this minor are required to present the minimum number of credit hours chosen from the list of courses below to satisfy minor requirements in their program of study. No more than 12h can be in a single discipline. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted towards the minor in Material and Visual Culture:
APSC 1223, ART/HIST 1813, ART/HIST 1823, ART 2073, ART 2083, ART 2093, ART 2413, ART 2423, ART 3313, ART 3323, ART 3513, ART 3713, CLAS 1803, CLAS 2013, CLAS 2023, CLAS 2553, CLAS 2583, CLAS 2733, CLAS 2823, CLAS 3013, CLAS 3453, CLAS 3663, CLAS 3673, CLAS 3813, CDNS 2513, ENGL 2033, ESST 3513, GEOL 1013, GEOL 2213, GEOL 2703, ENVS 3503, ENVS 3513, GEOL 3733, HIST 1533, HIST 2033, HIST 2493, HIST 2563, HIST 2613, HIST 2643, HIST 2743, HIST 2753, HIST 3143, HIST 3203, HIST 3583, HIST 3593, HIST 3623, HIST 3713, HIST 3723, HIST 3733, PHIL 2103, POLS 3783, PSYC 2173, PSYC 3083, SOCI 2533, THEA 2803, THEA 2813, WGST 3123.

## Mathematics and Statistics

Department of Mathematics and Statistics; Huggins Science Hall
Ph: (902) 585-1382; Fax: (902) 585-1074; https://math.acadiau.ca/

Programs Offered**:** Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Bachelor of Science with Honours (BScH), Bachelor of Science with Major (BSc), Minor

### THE MATHEMATICS AND STATISTICS CORE (33 credit hours)

All programs in Mathematics and Statistics require students to complete 33 credit hours (33h) as follows:

1. MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 2213, MATH 2223, MATH 2313, MATH 3533.
2. 3h from COMP 1113 or COMP 1233 or APSC 1413.

*Note that Mathematics and Statistics Majors may have Minors in any subject area but must include at least 6h at the 2000-level.

### HONOURS IN MATHEMATICS AND STATISTICS (BA and BSc)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours or Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. All courses presented for the Honours program must be completed with a minimum grade of B-.

**Program Requirements**

Honours in Mathematics and Statistics is attained through either a thesis-based or project-based program of study. Regardless of which route a student chooses, at least 57 credit hours (57h) must be completed in the Honours program as follows.

**Thesis-based Honours**

1. The Mathematics and Statistics Core (33h).
2. 3h from MATH 3213 or MATH 3303.
3. 15h at 3000/4000-level (of which 6h must be at the 4000-level). The 4000-level courses are to be approved by the department.
4. MATH 407T/MATH 408T.

**Project-based Honours**

1. The Mathematics and Statistics Core (33h).
2. 3h from MATH 3213 or MATH 3303.
3. 18h at 3000/4000-level (of which 6h must be at the 4000-level). The 4000-level courses are to be approved by the department.
4. MATH 4913.

### MAJOR IN MATHEMATICS AND STATISTICS

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) or Bachelor of Science (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

A Major in Mathematics and Statistics is available in both a Bachelor of Arts and a Bachelor of Science degree. Regardless of which route a student chooses, a minimum of 48 credit hours (48h) must be completed in the Major program as follows:

**Bachelor of Arts or Bachelor of Science**

1. The Mathematics and Statistics Core (33h).
2. 15h MATH at the 3000/4000-level approved by the department.

## DOUBLE MAJORS

Mathematics and Statistics is offered as a Double Major in both Arts and Science programs. Specific programs have been designed for BSc students who want to pursue a second major in any of the following disciplines: Business, Economics, Computer Science, Music, Applied Science. The requirements for these programs are outlined below. For all other programs, refer to the general requirements that follow:

## DOUBLE MAJOR: MATHEMATICS AND STATISTICS AS FIRST MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) or Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 48 credit hours (48h) in the Major program as follows. The major requirements are the same for students in the BA and BSc programs.

1. The Mathematics and Statistics Core (except MATH 3533).
2. 18h additional MATH at the 3000/4000-level approved by the department.

## DOUBLE MAJOR: MATHEMATICS AND STATISTICS AS SECOND MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) or Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 36 credit hours (36h) in the Major program as follows. The major requirements are the same for students in the BA and BSc programs.

1. All of the following (9h): MATH 1013, MATH 1023, MATH 2313.
2. 3h from MATH 1323 or MATH 1333.
3. 6h from MATH 2013 or MATH 2753; and MATH 2023 or MATH 2723.
4. 6h from MATH 2213/MATH 2223 or MATH 1253/MATH 2243 or MATH 1253/MATH 2253.
5. 12h additional MATH at 3000-level or above.

- The choice of MATH 2013/MATH 2023 or MATH 2723/MATH 2753, the choice of MATH 2213/MATH 2223 or MATH 1253/MATH 2243 or MATH 1253/MATH 2253, and the choices of 3000/4000-level courses must be approved by both departments.

## MATHEMATICS AND STATISTICS WITH APPLIED SCIENCE (BSc)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar. Students wishing to complete the Certificate in Applied Science should consult with the School of Engineering concerning their selection of additional courses.

**Program Requirements**

Students must complete a minimum of 45 credit hours (45h) in Mathematics and Statistics and 39h in Applied Science as follows:

1. All of the following: MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 2213, MATH 2223, MATH 2313, PHYS 1013, CHEM 1013.
2. 18h MATH at 3000/4000-level.
3. 33h of Applied Science courses to be chosen at the direction of the School of Engineering.

## MATHEMATICS AND STATISTICS WITH BUSINESS (BSc)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 48 credit hours (48h) in Mathematics and Statistics and 48h in Business as follows:

1. All of the following (72h): MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013, MATH 2023, MATH 2213, MATH 2223, MATH 2313, MATH 3603, MATH 3633, BUSI 1013, BUSI 1703, BUSI 2013, BUSI 2733, BUSI 2223, BUSI 2233, BUSI 2423, BUSI 2433, BUSI 2513, BUSI 3063, BUSI 3613, ECON 1013, ECON 1023.
2. 6h from MATH 3233, MATH 3253, MATH 3263, MATH 3273, MATH 3283, MATH 3293.
3. 6h additional MATH at the 3000/4000-level approved by the department.
4. 3h from COMP 1113 or COMP 1233 or APSC 1413.
5. 9h BUSI at the 3000/4000-level.

## MATHEMATICS AND STATISTICS WITH COMPUTER SCIENCE (BSc)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 48 credit hours (48h) in Mathematics and 39h in Computer Science as follows:

1. All of the following (57h): MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 2213, MATH 2223, MATH 2313, MATH 3413, MATH 4423, COMP 2103, COMP 2113, COMP 2203, COMP 2213, COMP 3413, COMP 3613, COMP 3713, COMP 3753.
2. 6h from COMP 1113/COMP 1123 or COMP 1233 and 3h COMP elective.
3. 3h from MATH 3303 or MATH 3533.
4. 9h MATH at the 3000/4000-level approved by the department.
5. 9h additional COMP at the 3000+ level approved by the Jodrey School of Computer Science.

## MATHEMATICS AND STATISTICS WITH ECONOMICS (BSc)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 48 credit hours (48h) in Mathematics and Statistics and 36h in Economics as follows:

1. All of the following: MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 2213, MATH 2223, MATH 2313, MATH 3233, ECON 1013, ECON 1023, ECON 2113, ECON 2213, ECON 3113, ECON 3123, ECON 4613.
2. 6h from MATH 3263, MATH 3273, MATH 3283, MATH 3293, MATH 3603, MATH 3713.
3. 9h additional Mathematics and Statistics courses at the 3000/4000-level approved by the department.
4. 15h Economics courses at the 3000/4000-level approved by the Economics department.
5. 3h from COMP 1113 or COMP 1233 or APSC 1413

## MATHEMATICS AND STATISTICS WITH MUSIC (BSc)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete 120h including 48 credit hours (48h) in Mathematics and Statistics and 39h in Music as follows:

1. All of the following (27h): MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 2213, MATH 2223, MATH 2313.
2. 27h: MUSI 1273, MUSI 1283, MUSI 1563, MUSI 169A-169B, MUSI 181A-181B, MUSI 2103, MUSI 2203, MUSI 2693, MUSI 2793.
3. 18h MATH at the 3000/4000-level.
4. 3h from COMP 1113 or COMP 1233 or APSC 1413.
5. MUSI 1663 (6h) or MUSI 2663 (6h) (for students who complete a successful audition) or 12h music electives.
6. MUSI 1600 in first year and MUSI 2700 in each subsequent year of enrolment.

## INTEGRATED BSC/BED PROGRAMS

The Department of Mathematics and Statistics offers integrated BSc/BEd programs in cooperation with the School of Education. These programs are five years in duration and are intended for undergraduate students who decide early in their academic program that they wish to pursue teaching. Students apply to the program during their first year of study. Students will be admitted to the integrated program on successful completion of Year 1. Student qualifications are reviewed on completion of Year 3, and continuance in the BEd portion of the program will be contingent on this review.

## FIRST DEGREE: BSC WITH HONOURS IN MATHEMATICS AND STATISTICS WITH EDUCATION SECOND DEGREE: BACHELOR OF EDUCATION

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours and Second Major requirements outlined in the previous section of this Calendar. Students are also subject to the requirements for the Bachelor of Education degree as outlined in the respective section of this Calendar. Additionally, all MATH courses must be completed with a minimum grade of B-.

**Program Requirements**

Students must complete a minimum of 150 credit hours (150h) as follows:

1. 54h of Mathematics and Statistics leading to completion of the Honours program. Honours in Mathematics can be achieved through either a thesis-based or project-based program of study.

   **Thesis-based Honours**

   a) All of the following (36h): MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013 or MATH 2753,

MATH 2023 or MATH 2723, MATH 2213, MATH 2223, MATH 2313, MATH 3533, MATH 407T/MATH 408T.
b) 3h from MATH 3213 or MATH 3303.
c) 15h MATH at 3000/4000-level (of which 6h must be at the 4000-level).

**Project-based Honours**
a) All of the following (33h): MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 2213, MATH 2223, MATH 2313, MATH 3533, MATH 4913. The 4000-level MATH courses are to be approved by the department.
b) 3h from MATH 3213 or MATH 3303.
c) 18h MATH at 3000/4000-level (of which 6h must be at the 4000-level). The 4000-level MATH courses are to be approved by the department.

2. All of the following (60h): EDUC 4053 EDUC 41F3, EDUC 4333, EDUC 4003, EDUC 40A3, EDUC 40C3 or EDUC 4783, EDUC 42D3, EDUC 4263, EDUC 4433, EDUC 4923, EDUC 4203, EDUC 4503, EDUC 4933, EDUC 4183, EDUC 4143*, EDUC 4643*, plus 12h of EDUC electives.
3. 18h in any discipline recognized by the School of Education as fulfilling the Second Teachable requirements.
4. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
5. 3h Computer Science courses directed towards Computer Science or Science students (either COMP 1113 or COMP 1233 or APSC 1413).
6. 6h electives from courses in the Faculty of Arts.
7. 3h electives.

* Equivalent methods courses for second teachable areas other than science can be substituted

## FIRST DEGREE: BSC DOUBLE MAJOR MATHEMATICS WITH EDUCATION
## SECOND DEGREE: BACHELOR OF EDUCATION

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar. Students are also subject to the requirements for the Bachelor of Education degree as outlined in the respective section of this Calendar.

**Program Requirements**

Students must complete a minimum of 150 credit hours (150h) as follows:

1. All of the following (27h): MATH 1013, MATH 1023, MATH 1313, MATH 1333, MATH 2013 or MATH 2753, MATH 2023 or MATH 2723, MATH 2213, MATH 2223, MATH 2313.
2. 18h additional MATH at 3000/4000-level.
3. All of the following (60h): EDUC 4053, EDUC 41F3, EDUC 4333, EDUC 4003, EDUC 40A3, EDUC 40C3 or EDUC 4783, EDUC 4263, EDUC 42D3, EDUC 4433, EDUC 4923, EDUC 4203, EDUC 4503, EDUC 4933, EDUC 4183, EDUC 4143**, EDUC 4643*, plus 12h of EDUC electives.
4. 18h in any discipline recognized by the School of Education as fulfilling the Second Teachable requirements.
5. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies (6h).
6. 3h Computer Science courses directed towards Computer Science or Science students (either COMP 1113 or COMP 1233 or APSC 1413).
7. 6h electives from the Faculty of Arts.
8. 12h of electives including sufficient Science electives to meet the requirements of a BSc Double Major.

* Equivalent methods courses for second teachable areas other than science can be substituted

## ACTUARIAL SCIENCE OPTION

The Actuarial Science option is designed to provide the courses needed to pass five actuarial exams: Financial Mathematics (FM), Probability (P), Statistics for Risk Modeling (SRM), Fundamentals in Actuarial Mathematics (FAM), one of Advanced Long-term Actuarial Mathematics (ALTAM) or Advanced Short-term Actuarial Mathematics (ASTAM), and three Validation by Educational Experience (VEE) credits: Economics, Accounting and Finance, and Mathematical Statistics.

The listing of courses below is organized by the exam requirements:
Exam FM: MATH 1013, MATH 1023, MATH 2633
Exam P: MATH 2013, MATH 2213, MATH 2223, MATH 3213
Exam SRM: MATH1333 or MATH 1323, MATH 3233, MATH 3283, MATH 3293
Exam FAM: MATH 3803, MATH 3813
Exam ALTAM or ASTAM: MATH 4803 or MATH 4813
VEE Economics: Econ 1013, Econ 1023
VEE Accounting & Finance: BUSI 1013, BUSI 2033, BUSI 2223, BUSI 2233
VEE Mathematical Statistics: MATH 4213

### DATA ANALYTICS OPTION
In addition to required 1000- and 2000-level Math courses, students should take: COMP 1113, COMP 1123; MATH 3233, MATH 3283, MATH 3293, MATH 3603, MATH 3633, MATH 3713, MATH 4213, MATH 4223, 4233; ECON 1013, ECON 1023; BUSI 1013, BUSI 2013, BUSI 2513, BUSI 3063.

### MINOR IN MATHEMATICS AND STATISTICS
The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Mathematics and Statistics are required to complete a minimum of 18 credit hours (18h) in the minor program, with at least 9h at the 2000-level or higher. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

### MINOR IN STATISTICS
Students must complete the following requirements:
1. 6h of statistics at the 1000/2000-level.
2. BSc students must complete 12h from MATH 3213, MATH 3233, MATH 3253, MATH 3263, MATH 3273, MATH 3283, MATH 3293, MATH 3633, MATH 4213, MATH 4223, MATH 4233.
3. BA students must complete 18h from the list of courses in point 2 above.

Note that some courses listed have additional prerequisites. Mathematics & Statistics majors may not receive a minor in Statistics.

### CERTIFICATE IN MATHEMATICS TEACHING (GRADES 5 TO 9)
Acadia University's Certificate in Math Teaching will build your skills as a Middle School Math educator. The certificate is designed for teachers without a strong background in mathematics or for those seeking to update their knowledge of math curriculum and pedagogy. The program addresses professional development needs identified by the Nova Scotia Department of Education, and the NS Office of Teacher Certification has approved it as an upgrade certificate for eligible teachers. In this two-year part-time program, cohort students take classes on selected Saturdays during the school year and in compressed study in the summers. The certificate combines undergraduate math courses in topics central to curriculum with graduate courses in education that focus on mathematics pedagogy, in order to provide both the content area support and the specific pedagogical knowledge to sharpen your math teaching. The courses are structured to offer a "scope and sequence" approach to math curriculum, providing an understanding of the development of these concepts across the grades, as well as the role those concepts play in understanding math in future grades. Students are also welcome to take individual courses without enrolling in the full certificate.

The following courses are required for the certificate:
1. All of the following (18h): MATH 1533, MATH 1543, MATH 1553, MATH 1563, MATH 1573, MATH 1583.
2. All of the following (9h): EDUC 5673, EDUC 5843, EDUC 5303.
3. 3h from EDUC 5053 or EDUC 5153.

## Music
School of Music; Harvey Denton Hall
Ph: (902) 585-1512; http://music.acadiau.ca/

Acadia University’s School of Music believes an undergraduate school of music in a liberal university should be more of a laboratory than a conservatory. We strive to create versatile, confident, and well-rounded musicians who are prepared to meet the challenges of the 21st century. Our foundational curriculum combines courses in music theory, music history and culture, musicianship skills, keyboard skills, improvisation, composition, intensive ensembles, and our courses are taught in a creative way, with outcomes geared for contemporary musicians. The aim is to graduate well-rounded musicians who can thrive in a variety of professional contexts. All School of Music degrees offer students the chance for individual lessons to establish strong technical and artistic foundations, while classroom courses, ensemble opportunities, and major artistic projects ensure that students can function as contemporary artists across genres.

Many courses offered by the School of Music are available as electives to all full- and part-time students of the university. School of Music ensembles like the university band, chorus, jazz band, and orchestra are available to all university students, and an ensemble fee will apply to all students registered in ensembles.

Students should be aware that extra fees will apply for the Concert Credit, and supplementary fees will be charged to non-music students as listed in the fees section of this Calendar. Programs Offered**:** Bachelor of Music (BM), Bachelor of Arts in Music (BAM), Bachelor of Arts in Music Honours (BAMH), Bachelor of Music Therapy (BMT), and Certificate in Music Therapy (CMT).

### THE SCHOOL OF MUSIC CORE (33 credit hours)
1. MUSI 1273, MUSI 1283, MUSI 1563, MUSI 169A-169B, MUSI 181A-181B, MUSI 2103, MUSI 2203, MUSI 2693, MUSI 2793 (Each of these courses must be completed with a minimum grade of C-).
2. 6h of ENGL 1413 and ENGL 1423, or any combination of History courses at the 1000-level.
3. First-year music students will take MUSI 1600. Students in each subsequent academic level must successfully complete both terms of MUSI 2700 each year.
4. Music majors must complete MUSI 2870, Concert Credit, in each year of their program.

## BACHELOR OF MUSIC

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, students must achieve a minimum cumulative GPA of 2.00 to graduate from the program.

**Bachelor of Music Requirements: 120 credit hours (120h)**

1. The School of Music Core (33h).
2. 24h of Applied Study.
3. MUSI 1823 and 9h of Collaborative Music Courses.
4. 6h of Music Theory (3h) and History and Culture (3h).
5. 21h Music electives.
6. 24h non-Music electives.

## BACHELOR OF MUSIC (WITH CONCENTRATION IN EDUCATION)

(The Concentration in Music Education is designed to provide preparation for entrance into the Bachelor of Education program. Students must earn a minimum CGPA of 3.00, by the end of second year, in order to continue in the Music Education program.)

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, students must achieve a minimum cumulative GPA of 2.00 to graduate from the program.

**Bachelor of Music (Concentration in Education) Requirements: 120 credit hours (120h)**

1. The School of Music Core (33h).
2. 24h of Applied Study.
3. MUSI 1823 and 3h of Collaborative Music Courses.
4. 3h additional Music Theory, History and Culture.
5. Music Education students must complete all the courses, in preparation for either Elementary or Secondary Music Teacher Certification in a BEd program. (27h) - MUSI 2343, MUSI 3143, MUSI 3310, MUSI 3311, MUSI 3320, MUSI 3321, MUSI 3331, MUSI 3341, MUSI 3351, MUSI 3361, MUSI 3371, MUSI 3381, MUSI 3391, MUSI 4153, MUSI 4343, MUSI 431A/431B, MUSI 43B3.
6. 3h from MUSI 1353, MUSI 2353 or MUSI 4143 or MUSI 4363.
7. 24h non-music electives.

## BACHELOR OF ARTS IN MUSIC HONOURS (BAMH)

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, students must achieve a minimum cumulative GPA of 3 .00 to graduate from the program.

**Bachelor of Arts in Music with Honours Program Requirements: 120 credit hours (120h)**

1. The School of Music Core (33h).
2. MUSI 407T and MUSI 408T
3. 21h of additional Music Theory, History and Culture.
4. 18h Music electives.
5. 42h non-Music electives.

## BACHELOR OF ARTS IN MUSIC (BAM)

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, students must achieve a minimum cumulative GPA of 2.00 to graduate from the program.

**Bachelor of Arts in Music Program Requirements: 120 credit hours (120h)**

1. The School of Music Core (33h).
2. 15h of additional Music Theory, History and Culture.
3. 30h Music electives.
4. 42h non-Music electives.

## BACHELOR OF MUSIC THERAPY

Students must earn a minimum CGPA of 3.00 and present a successful application in their second year to continue in the Bachelor of Music Therapy program.

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, students must achieve a minimum cumulative GPA of 2.00 to graduate from the program.

**Bachelor of Music Therapy Program Requirements: 120 credit hours (120h)**

1. The School of Music Core (33h).
2. 12h of Applied Study.
3. MUSI 1823 and 3h of Collaborative Music Courses.
4. 15h from MUSI 1353, MUSI 1713, MUSI 1733, MUSI 2083 or MUSI 2343, Applied Study (required instrument competency)
5. All of the following (15h): MUSI 2573, MUSI 3560/MUSI 3563, MUSI 3570/MUSI 3573, MUSI 4560/MUSI 4563, MUSI 4570/MUSI 4573.
6. 18h of PSYC which must include PSYC 1013, PSYC 1023, PSYC 2113, PSYC 2133, PSYC 2153.
7. 12h Music electives.
8. 9h non-Music electives.

The four-year Bachelor of Music Therapy program includes four different practicum placements completed within the degree requirements. After finishing the BMT degree, candidates will complete a 1000-hour supervised internship, and then make a formal application to the Canadian Association for Music Therapy to become a Music Therapist Accredited (MTA).

## CERTIFICATE IN MUSIC EDUCATION

***Pending MPHEC Approval. Not accepting students for Fall 2025.***

The Certificate in Music Education is available to students with an earned degree in music who require specific courses in order to pursue admission into a School of Education, or for current teachers who wish to upgrade their teaching skills in instrumental music education.

Students must complete 30 credit hours (30h) as follows:

1. 18h (ASYNCHRONOUS) MUSI 4393 (woodwinds methods), MUSI 4393 (brass methods), MUSI 4393 (music ed.), MUSI 4393 (music ed.), MUSI 2353, MUSI 2343.
2. 12h (IN-PERSON) MUSI 3033, MUSI 3143, two of the following: MUSI 1353, MUSI 1733, MUSI 2083.

## CERTIFICATE IN MUSIC THERAPY

The Certificate in Music Therapy is available for students with an earned degree in music who wish to study at Acadia University in order to become eligible for professional music therapy credentials.

Students must complete 30 credit hours (30h) including all of the following:

1. MUSI 1563, MUSI 2573, MUSI 3560/MUSI 3563, MUSI 3570/MUSI 3573, MUSI 4560/MUSI 4563, MUSI 4570/MUSI 4573.
2. PSYC 2113, PSYC 2133, PSYC 2153, plus one PSYC elective. (Before being accepted to the CMT program, 6hours in 1000-level Psychology must be completed).

Before completion, the student must show proficiency in piano, guitar, percussion, and voice. The two-year certificate program includes four different practicum placements completed within the degree requirements. After finishing the CMT, candidates will complete a 1000-hour supervised internship, then make a formal application to the Canadian Association for Music Therapy to become a Music Therapist Accredited (MTA).

## CERTIFICATE IN MUSIC THERAPY

***Pending MPHEC approval. New format not accepting students for Fall 2025.***

The Certificate in Music Therapy is available for students with an earned undergraduate degree in music who wish to study at Acadia University in order to become eligible for professional music therapy credentials. This certificate is completed primarily virtually using synchronous and asynchronous modalities, with in-person courses offered in the summer terms.

Students must complete 24 credit hours (24h) including all of the following:

1. 15h – (ASYNCHRONOUS) MUSI 2573, MUSI 3563, MUSI 3573, MUSI 4563, MUSI 4573.
2. 0h – (ASYNCHRONOUS/SYNCHRONOUS) MUSI 3560, MUSI 3570, MUSI 4560, MUSI 4570.
3. 9h – (IN-PERSON) MUSI 1353 or 1713, MUSI 1733, MUSI 2083.

After finishing the CMT, candidates will complete a 1000-hour supervised internship, then make a formal application to the Canadian Association for Music Therapy to become a Music Therapist Accredited (MTA).

## MUSIC AS A SECOND MAJOR

All students interested in pursuing Music as a Second Major, must complete an audition with the School of Music. Contact the School for details. Students must complete a minimum of 39 credit hours (39h) in Music, to be considered a Second Major.

1. 27h: MUSI 1273, MUSI 1283, MUSI 1563, MUSI 169A-169B, MUSI 181A-181B, MUSI 2103, MUSI 2203, MUSI 2693, MUSI 2793.
2. 12h of Applied Study (for eligible students) or 12h music electives.
3. MUSI 1600 in first year, and MUSI 2700 in each subsequent year of enrolment.

## Nutrition and Dietetics

The School of Nutrition and Dietetics; Huggins Science Hall
Ph: (902) 585-1366; Fax: (902) 585-1637; nutr@acadiau.ca

The School of Nutrition and Dietetics has a long and distinguished history at Acadia. Since 1928, the School has been graduating high-caliber individuals, well grounded in the science and art of nutrition, and equally capable of obtaining work in the dietetic profession or continuing their studies in graduate school, or in education, law, or the health professions including medicine, physiotherapy, nursing and dentistry.

Students in this program build on a foundation of food and develop an appreciation for current issues in nutrition and dietetics. Nutrition students gain solid knowledge in biology and chemistry which is applied to studies of food and nutrient metabolism. This background, combined with courses in an array of foundational topics such as communications, food systems, community nutrition, research methods, nutrition education, psychology and statistics, prepares students to work effectively with individuals, families and communities to plan, develop and manage relevant nutrition programs.

The curriculum of the four-year Bachelor of Science in Nutrition degree program supports students to develop an area of interest in human nutrition and/or take courses which enable them to qualify for the integrated or postgraduate training required to become a Registered Dietitian. Students can also pursue combined studies in Nutrition and Biology, Nutrition and Chemistry, or Nutrition and Psychology which serve as excellent preparation for careers in the medical and health professions. Students intending to pursue postgraduate studies are encouraged to complete the Honours program.

Programs Offered: Bachelor of Science in Nutrition with Honours (BSNH), Bachelor of Science in Nutrition (BSN), Minor, Acadia University Dietetic Practicum

### THE NUTRITION CORE (39 credit hours)

NUTR 1313, NUTR 1323, NUTR 1333, NUTR 1343, NUTR 2013, NUTR 2023, NUTR 2323, NUTR 3023, NUTR 3513, NUTR 4123, NUTR 4223, NUTR 4533, NUTR 4903.

### BACHELOR OF SCIENCE IN NUTRITION WITH HONOURS PROGRAMS

**Graduation Requirements**

Honours is available in all of the BSN degrees outlined below. In addition to the specific course requirements for each program, a GPA of 3.33 is required for Honours. Additionally, a minimum of 48h in Nutrition courses must each be passed with a minimum B- grade.

**Program Requirements**

Students must complete 120 credit hours (120h). There are two routes to the BSN with Honours.

a) Thesis route (NUTR 407T/NUTR 408T). Admission to the thesis route requires agreement of a faculty member in the School to supervise the thesis.
b) Dietetic Practicum (NUTR 4033 and NUTR 4043).

### BACHELOR OF SCIENCE IN NUTRITION

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, a minimum program GPA of 2.00 is required to graduate and all Nutrition courses offered towards program requirements must each be completed with a minimum C- grade.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Nutrition Core (39h).
2. All of the following: BIOL 1813, BIOL 2053 OR BIOL 2453, BIOL 2813, BIOL 2823, CHEM 1013, CHEM 1023, CHEM 2513, PSYC 1013, PSYC 1023.
3. 3h from CHEM 2713 or CHEM 2773.
4. 6h from MATH 1213/MATH 1223 or MATH 1253/2243 or MATH 1253/2253 or MATH 2233/MATH 2243.
5. 3h NUTR elective.
6. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
7. 6h from the Faculty of Arts.
8. 30h university electives.
9. A minor, 12h in one subject other than Nutrition, with a minimum grade of C- in each course.

### BACHELOR OF SCIENCE IN NUTRITION (DIETETICS OPTION)

The School of Nutrition and Dietetics offers a Bachelor of Science in Nutrition (Dietetics Option). This dietetics education program is accredited by EQual and prepares students for eligibility for registration with a provincial dietetic regulatory body.

With the proper selection of courses required for the Dietetics Option, students may meet the requirements for admission to an accredited dietetic practicum program in Canada. Eligibility criteria are established by individual programs and admission is competitive.

The School of Nutrition and Dietetics offers a Dietetic Practicum Program in partnership with the Western Zone of the Nova Scotia Health Authority. This program provides practicum placements for Acadia students who successfully compete for the positions and supports two program streams – integrated and graduate. Students who meet the eligibility criteria, including a minimum GPA of 2.67, can make an application to the program a maximum of two times. Students may apply for the integrated practicum stream in the year they intend to complete the third-year sequence of courses. Students may apply for the graduate practicum stream in the year they intend to complete the fourth-year sequence of courses.

Students enrolled in the Acadia Dietetic Practicum Program complete placements with Western Nova Scotia dietitians for the summer after their third year of study and the summer and fall after their fourth year of study, or for one year post graduation to complete the Integrated Competencies for Dietetic Education and Practice (ICDEP) required to be eligible to write the national Canadian Dietetic Registration Exam (CDRE) and earn the Registered Dietitian designation.

**Graduation Requirements**
Students must complete the program as outlined below. Additionally, a minimum program GPA of 2.00 is required to graduate and all Nutrition courses offered towards program requirements must each be completed with a minimum C- grade. Students completing the Dietetics Option will meet the eligibility requirements for application to practicums that meet the accreditation standards set by EQual.

**Program Requirements**
Students must complete 120 credit hours (120h) as follows.

1. The Nutrition Core (39h).
2. All of the following: BIOL 1813, BIOL 2053 OR BIOL 2453, BIOL 2813, BIOL 2823, CHEM 1013, CHEM 1023, CHEM 2513, NUTR 3013, NUTR 3033, NUTR 3553, NUTR 4013, NUTR 4023, NUTR 4553, PSYC 1013, PSYC 1023.
3. 3h from CHEM 2713 or CHEM 2773.
4. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2243 or MATH 2233/MATH 2243 or MATH 1253/MATH 2253.
5. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies) Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
6. 6h from the Faculty of Arts.
7. 15h university electives.
8. A minor, 12h in one subject other than Nutrition, with a minimum grade of C- in each course.

## BACHELOR OF SCIENCE IN NUTRITION WITH SECOND MAJOR IN BIOLOGY

**Graduation Requirements**
Students must complete the program as outlined below. Additionally, a minimum program GPA of 2.00 is required to graduate and all courses offered towards Nutrition and Biology requirements must each be completed with a minimum C- grade.

Please note: Students in the Bachelor of Science in Nutrition (Dietetics Option) with second major in Biology **will not** be able to complete all requirements in 4 years.

**Program Requirements**
Students must complete 120 credit hours (120h) as follows:

1. The Nutrition Core (39h).
2. All of the following: BIOL 2013, BIOL 2073, CHEM 1013, CHEM 1023, CHEM 2513, MATH 2233 or MATH 1253, MATH 2243 or MATH 2253, PSYC 1013, PSYC 1023.
3. 6h from BIOL 1113/BIOL 1123 or BIOL 1813/BIOL 1823.
4. 3h from BIOL 2043, BIOL 2053 or BIOL 2453.
5. 3h from CHEM 2713 or CHEM 2773.
6. 15h Biology courses (12h of which must be at the 3000/4000-level).
7. 3h NUTR elective.
8. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
9. 6h from the Faculty of Arts.
10. 12h university electives.
11. A minor, 12h in one subject other than Nutrition, with a minimum grade of C- in each course.

## BACHELOR OF SCIENCE IN NUTRITION WITH SECOND MAJOR IN CHEMISTRY

**Graduation Requirements**
Students must complete the program as outlined below. Additionally, a minimum program GPA of 2.00 is required to graduate and all courses offered towards Nutrition and Chemistry requirements must each be completed with a minimum C- grade.

Please note: Students in the Bachelor of Science in Nutrition (Dietetics Option) with second major in Chemistry **will not** be able to complete all requirements in 4 years.

**Program Requirements**
Students must complete 120 credit hours (120h) as follows:

1. The Nutrition Core (39h).

2. All of the following: BIOL 1813, BIOL 2053 or BIOL 2453, BIOL 2813, BIOL 2823, CHEM 1013, CHEM 1023, CHEM 2513, PSYC 1013, PSYC 1023.
3. 3h from CHEM 2713 or CHEM 2773.
4. 6h from MATH 1213/1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2233/MATH 2243.
5. 18h additional CHEM (CHEM 1053 cannot be used for major or minor credit).
6. 3h NUTR elective.
7. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
8. 6h from the Faculty of Arts.
9. 12h university electives.
10. A minor, 12h in one subject other than Nutrition, with a minimum grade of C- in each course.

## BACHELOR OF SCIENCE IN NUTRITION WITH SECOND MAJOR IN PSYCHOLOGY

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, a minimum program GPA of 2.00 is required to graduate and all courses offered towards Nutrition and Psychology requirements must each be completed with a minimum C- grade.

Please note: Students in the Bachelor of Science in Nutrition (Dietetics Option) with second major in Psychology **will not** be able to complete all requirements in 4 years.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Nutrition Core (39h).
2. All of the following: BIOL 1813, BIOL 2053 or BIOL 2453, BIOL 2813, BIOL 2823 CHEM 1013, CHEM 1023, CHEM 2513, PSYC 1113 or PSYC 1013 (with B- or better), PSYC 1123 or PSYC 1023 (with B- or better), PSYC 2013, PSYC 2023.
3. 3h from PSYC 2113 or PSYC 2123.
4. 3h from PSYC 2133 or PSYC 2143 or PSYC 2173.
5. 3h from PSYC 2103 or PSYC 2153.
6. 12h additional PSYC (at least 9h of which must be at the 3000/4000-level), completed with a minimum grade of C-.
7. 3h from CHEM 2713 or CHEM 2773.
8. 6h from MATH 1213/MATH 1223 or MATH 2233/MATH 2243 or MATH 1253/MATH 2243 or MATH 1253/MATH 2253.
9. 3h NUTR elective.
10. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
11. 6h from the Faculty of Arts.
12. 3h university elective.
13. A minor, 12h in one subject other than Nutrition, with a minimum grade of C- in each course.

## BACHELOR OF SCIENCE IN NUTRITION (CONSUMER FOOD OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, a minimum program GPA of 2.00 is required to graduate and all Nutrition courses offered towards program requirements must each be completed with a minimum C- grade.

Please note: Students in the Bachelor of Science in Nutrition (Dietetics Option) with the Consumer Food option **will not** be able to complete all requirements in 4 years.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Nutrition Core (39h).
2. All of the following: NUTR 2333, NUTR 4103, NUTR 4733, BIOL 1813, BIOL 2053 OR BIOL 2453, BIOL 2813, BIOL 2823, BIOL 3573, CHEM 1013, CHEM 1023, CHEM 2513, PSYC 1013, PSYC 1023.
3. 3h from CHEM 2713 or CHEM 2773.
4. 3h from 3000/4000-level CHEM, chosen in consultation with the Chemistry Department.
5. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2243 or MATH 2233/MATH 2243 or MATH 1253/MATH 2253.
6. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
7. 6h from the Faculty of Arts.
8. 18h university electives.
9. A minor, 12h in one subject other than Nutrition, with a minimum grade of C- in each course.

## BACHELOR OF SCIENCE IN NUTRITION (KINESIOLOGY OPTION)

**Graduation Requirements**

Students must complete the program as outlined below. Additionally, a minimum program GPA of 2.00 is required to graduate and all Nutrition courses offered towards program requirements must each be completed with a minimum C- grade.

**Program Requirements**

Students must complete 120 credit hours (120h) as follows:

1. The Nutrition Core (39h).
2. All of the following: BIOL 1813, CHEM 1013, CHEM 1023, CHEM 2513, KINE 3013, PSYC 1013, PSYC 1023.
3. 12h Kinesiology courses (other than KINE 1993, KINE 2413, KINE 2423).
4. 6h from BIOL 2813/BIOL 2823 or KINE 2413/KINE 2423 (credit can only be obtained for one of these pairs of courses).
5. 3h from CHEM 2713 or CHEM 2773.
6. 6h from MATH 1213/MATH 1223 or MATH 2233/MATH 2243 or MATH 1253/MATH 2243 or MATH 1253/MATH 2253.
7. 3h BIOL elective.
8. 3h NUTR elective.
9. 6h selected from English, Art at the 1000-level, Classics, Comparative Religion, a single language other than English, History, Music (not applied, vocal or instrumental methods, or practical studies), Philosophy, Theology (BIBL 2000 and 3000 level, GREE 3000 level, HEBR 3000 level, THEO 2000, 3000, and 4000 level), or Women's and Gender Studies.
10. 6h from the Faculty of Arts.
11. 15h university electives.
12. A minor, 12h in one subject other than Nutrition, with a minimum grade of C- in each course.

- A maximum of 12 students will be accepted each year. Students interested in this option will be considered for admission in the winter semester of their second year in the Bachelor of Science in Nutrition program. A cumulative GPA of 2.75 is required for admission to this option.

## MINOR IN NUTRITION

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Nutrition are required to complete a minimum of 18 credit hours (18h) in the minor program with a minimum grade of C- in each course. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

# Philosophy

Department of Philosophy, 219 Beveridge Arts Centre
Ph: (902) 585-1506; Fax: (902) 585-1070; http://philosophy.acadiau.ca

Philosophy tackles the most fundamental questions anyone can ask, such as: How should I live? What can I know? Does God exist? What rights and duties do I have? Do I act freely? Studying philosophy bestows insight into questions like these and develops skills of analysis, argumentation and clear expression. Philosophical questions underlie the theory and practice of every academic field.

Programs Offered: Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Minor

## HONOURS IN PHILOSOPHY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar. Additionally, no more than 6h of PHIL at the 1000-level may contribute toward the degree.

**Program Requirements**

Students must complete 54 credit hours (54h) in Philosophy as follows:

1. 6h of PHIL at the 1000-level.
2. PHIL 2003, PHIL 2033.
3. PHIL 2113, PHIL 2123, PHIL 2313, PHIL 2323, PHIL 2823, PHIL 407T/PHIL 408T.
4. 3h from PHIL 2913 or PHIL 3553.
5. 3h from PHIL 3113 or PHIL 3223.
6. 15h of PHIL, which must include 6h at the 3000-level or higher.

## MAJOR IN PHILOSOPHY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar. Additionally, no more than 6h of PHIL at the 1000-level may contribute toward the degree.

**Program Requirements**

Students must complete 42 credit hours (42h) in Philosophy as follows:

1. 6h of PHIL at the 1000-level.
2. PHIL 2003, PHIL 2033.
3. PHIL 2113, PHIL 2123, PHIL 2913.

4. 3h from PHIL 2813 or PHIL 2823.
5. 6h from PHIL 2303, PHIL 2313, PHIL 2323, PHIL 2713, PHIL 3203, PHIL 3213, PHIL 3713.
6. 12h of PHIL, which must include 6h at the 3000-level or higher.

## DOUBLE MAJOR: PHILOSOPHY AS FIRST MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar. Additionally, no more than 6h of PHIL at the 1000-level may contribute toward the degree.

**Program Requirements**

Students must complete the 42 credit hours (42h) described in the Philosophy Major program above.

## DOUBLE MAJOR: PHILOSOPHY AS SECOND MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar. Additionally, no more than 6h of PHIL at the 1000-level may contribute toward the degree.

**Program Requirements**

Students must complete 36 credit hours (36h) in Philosophy as follows:

1. 6h of PHIL at the 1000-level.
2. PHIL 2003, PHIL 2033.
3. PHIL 2113, PHIL 2123.
4. 6h from PHIL 2303, PHIL 2313, PHIL 2323, PHIL 2713, PHIL 3203, PHIL 3213, PHIL 3713.
5. 12h of PHIL, which must include 6h at the 3000-level or higher.

## MINOR IN PHILOSOPHY

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

## Cross-Listed Courses

The following courses may be counted towards major credit in Philosophy: POLS 2113, POLS 3143.

# Physics

Department of Physics; Huggins Science Hall
Ph: (902) 585-1401; Fax: (902) 585-1816; physics@acadiau.ca

Programs Offered**:** Bachelor of Science with Honours (BScH), Bachelor of Science with Major (BSc), Minor

## THE PHYSICS CORE

1. PHYS 1013 or PHYS 1053/PHYS 1063.
2. PHYS 1023, PHYS 2113, PHYS 2203, PHYS 2213, PHYS 2413, PHYS 2523, PHYS 3253, PHYS 3613.

## HONOURS IN PHYSICS

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. Additionally, all courses for the Physics Honours program must completed be with a minimum grade of B-

**Program Requirements**

Students must complete a minimum of 81 credit hours (81h) in the Honours program as follows:

1. The Physics Core.
2. 21h Physics at the 3000/4000-level.
3. PHYS 407T/PHYS 408T or PHYS 4523 and 3h Physics at the 4000-level.
4. MATH 1013, MATH 1023, MATH 2723 or MATH 2023, MATH 2753 or MATH 2013, MATH 3713, MATH 4753.
5. 3h from MATH 1333 or MATH 1323.
6. 6h from CHEM 1013, CHEM 1023, CHEM 1113, CHEM 1123, APSC 1413, APSC 2613, COMP 1113, COMP 1123, COMP 1233, COMP 2103, COMP 2113.

- PHYS 1513, PHYS 1523, PHYS 1543, PHYS 1553 and PHYS 1563 may not be offered to fulfill Major requirements.

## MAJOR IN PHYSICS

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 66 credit hours (66h) for a Major with a single minor or 60h for a Major with a double minor in the Major program as follows:

1. The Physics Core.
2. A minimum additional 18h (single minor) or 12h (double minor) Physics.
3. MATH 1013, MATH 1023, MATH 2723 or MATH 2023, MATH 2753 or MATH 2013.
4. 3h from MATH 1333 or MATH 1323.
5. 6h from CHEM 1013, CHEM 1023, CHEM 1113, CHEM 1123, APSC 1413, APSC 2613, COMP 1113, COMP 1123, COMP 1233, COMP 2103, COMP 2113.

- PHYS 1513, PHYS 1523, PHYS 1543, PHYS 1553, and PHYS 1563 may not be offered to fulfill Major requirements.

## MAJOR IN PHYSICS COMBINED WITH THE CERTIFICATE IN APPLIED SCIENCE

Those students who complete the requirements for the CAS may substitute a total of 6h from APSC 2113, APSC 2123, APSC 2213 or APSC 2223 towards their Major in Physics.

## DOUBLE MAJOR: PHYSICS AS FIRST MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) in the first major as follows:

1. The Physics Core.
2. 9h additional Physics.
3. MATH 1013 and MATH 1023.
4. 3h from MATH 1333 or MATH 1323.
5. 6h from MATH 2723/MATH 2753 or MATH 2013/MATH 2023.
6. 6h from CHEM 1013/CHEM 1023, CHEM 1113/CHEM 1123, APSC 1413, APSC 2613, COMP 1113, COMP 1123.

## DOUBLE MAJOR: PHYSICS AS SECOND MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 51 credit hours (51h) in the second major as follows:

1. The Physics Core.
2. 9h additional Physics.
3. MATH 1013 and MATH 1023.
4. 3h from MATH 1333 or MATH 1323.
5. 6h from MATH 2723/MATH 2753 or MATH 2013/MATH 2023.

## MINOR IN PHYSICS

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Physics are required to complete a minimum of 18 credit hours (18h) of Physics courses in the minor program, with at least 9h of Physics courses at the 2000 level or higher. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

# Politics

Department of Politics; Beveridge Arts Centre
Ph: 902.585.1506; Fax: 902.585.1070; politics@acadiau.ca

The Department of Politics is where great ideas and urgent action are united. Students in the program are trained to identify and explain complex problems facing local communities, countries, and the world, and to explore and develop effective and creative solutions for solving them.

There are five concentrations that define our program: **Canadian Politics** (i.e., federalism and the constitution, Indigenous reconciliation, elections, and the courts); **Public Policy** (i.e., health policy, education policy, environmental policy); **International Politics** (i.e., global migration, Canadian and American foreign policy, international security, international law, and global resistance); **Political Theory** (i.e., the history and politics of knowledge, identity, language, power and authority); and **Comparative Politics** (i.e., American, Latin American, and European politics, gender and politics globalization, international development). Each area explores

variables like power, identity, and location in order to better understand issues like government priorities, the common good, the court system, media representations, social and economic development, climate change and environmental policy, activism, and global governance, conflict and migration. Our renowned **Passport Program** encourages you to explore the world inside and outside class.

Our students are thus equipped with the necessary skills to actively participate in shaping a complex and changing social, economic, cultural and political world. A degree in Politics prepares students for a range of careers in law, public policy, government, diplomacy, armed services, education, academic and industrial research, local and global community services, law enforcement and crisis management, visual, auditory and print journalism, and various types of non-governmental and charitable work in and outside of Canada. A politics degree provides the analytic, explanatory, and actionable skills required to turn knowledge about the contemporary world into political projects designed to change the world for the better.

Programs Offered: Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Minor, Certificate in Democratic Leadership

## HONOURS IN POLITICS

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 60 credit hours (60h) as follows:

1. POLS 1303, POLS 1403, POLS 2003, POLS 2113, POLS 2223, POLS 2683, POLS 2893, POLS 3033, POLS 3043, POLS 407T/POLS 408T.
2. 9h at the 4000-level (excluding POLS 407T/POLS 408T).
3. 18h additional Politics courses.
4. POLS 2000 in each year of study.

## MAJOR IN POLITICS

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete 120h including 48 credit hours (48h) in the Major program as follows:

1. POLS 1303, POLS 1403, POLS 2003, POLS 2113, POLS 2223, POLS 2683, POLS 2893.
2. 27h additional Politics courses, of which 18h must be at the 3000- or 4000- level.
3. POLS 2000 in each year of study.

## DOUBLE MAJORS IN POLITICS

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 39 credit hours (39h) (42h if Politics is the first Major) in the Major program as follows:

1. POLS 1303, POLS 1403, POLS 2003, POLS 2113, POLS 2223, POLS 2683, POLS 2893.
2. 18h additional Politics courses (21h if Politics is the first major), of which 18h must be at the 3000- or 4000- level.
3. POLS 2000 in each year of study.

## MINOR IN POLITICS

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Politics are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

## Cross-Listed Courses

The following courses may be counted as credit in Politics: IDST 2213, IDST 2223, IDST 2253, IDST 3103, IDST 3123, IDST 3213, IDST 4186, WGST 2913, WGST 3023.

### CERTIFICATE IN DEMOCRATIC LEADERSHIP

The Certificate in Democratic Leadership aims to build knowledge in ethical leadership while promoting high standards of political efficacy, integrity, and trust within the Canadian context. It features an introductory course on democratic leadership, delivered in partnership with other institutions in the Network of Jarislowsky Chairs in Trust and Political Leadership, along with a requirement for experiential learning. The program is a stand-alone credential offered through the Department of Politics, in partnership with Open Acadia – students can take courses delivered all on campus, all online, or a combination thereof. Starting in 2027, the program can be completed entirely through asynchronous online delivery, or it may be combined with some in-person and/or synchronous online courses, normally within 12 months.

Program Coordinator: Jarislowsky Chair in Trust and Political Leadership, Department of Politics.

**1. Admission Requirements**
Current Students: To register, current students must obtain permission from the Head of the Department of Politics, who will then submit written approval to the Registrar's Office.

New Students: The admission requirements for new students are the same as the admission requirements for the Bachelor of Arts (Politics). Non-traditional learners are also encouraged to apply. Successful completion of COMM 1213, or equivalent, with a minimum grade of 60% may be required.

**2. Course Requirements**
Students must complete POLS 2000 Politics Passport and a minimum of 15 credit hours (15h) in eligible courses, as follows:

1. 3h selected from POLS 1303 Law/Politics & Government or POLS 2003 Introduction to Public Policy and the Public Good;
2. 3h in POLS 2023 Introduction to Democratic Leadership;
3. 3h in POLS 2223 Introduction to Canadian Politics; and
4. 6h selected from POLS 3133 Leaders and Cabinets in Canada, POLS 3203 Political Leadership in Atlantic Canda, POLS 3253 Political Ethics, and POLS 4023 Getting Elected in Canada.

**3. Additional Regulations**

a) The Program Coordinator shall assess a student's co-curricular record to ascertain if the criteria for experiential learning have been met. These criteria are available on the certificate's Acadia webpage.
b) Courses completed for the certificate may be transferred to potentially satisfy another program, subject to both program's regulations.
c) With prior written permission of the Program Coordinator and subsequently the Head of Politics, a student may substitute another Canadian politics course in place of POLS 2223. Normal prerequisites for other courses continue to apply.
d) With written approval of the Program Coordinator, a student whose Honours essay directly aligns with the certificate program may apply to substitute up to 3 credit hours toward the required 15h of eligible courses. However, all students must complete POLS 2023, which cannot be substituted.
e) With approval of the Head of the Department, in consultation with the Program Coordinator and the Registrar's Office, up to 6 credit hours in applicable courses may be transferred from other institutions. A minimum of 9 credit hours in courses prescribed for this certificate program must be completed through Acadia University.

## Psychology

Department of Psychology; Horton Hall
Ph: (902) 585-1301; Fax: (902) 585-1078; http://psychology.acadiau.ca/

The Psychology Department at Acadia offers many different undergraduate programs leading to either a BA or BSc degree, with or without Honours. We also offer an Applied Psychology Option for interested students in any of our degree programs and a Neuroscience Option (for BSc students only). Students wishing to transfer to the Psychology major must have a grade point average of 2.50. They may apply their credits for PSYC 1013/1023 or equivalent towards the Psychology major, if they received a grade of B- or higher. Programs Offered**:** Bachelor of Arts with Honours (BAH), Bachelor of Science with Honours (BScH), Bachelor of Arts with Major (BA), Bachelor of Science with Major (BSc), Minor

### THE PSYCHOLOGY CORE (21 credit hours)

Psychology students must complete 21 credit hours (21h) as follows:

1. PSYC 1113, PSYC 1123, PSYC 2013, PSYC 2023.
2. 3h from PSYC 2113 or PSYC 2123.
3. 3h from PSYC 2133, PSYC 2143, PSYC 2173.
4. 3h from PSYC 2103 or PSYC 2153.

### THE HONOURS CORE (15 credit hours)

PSYC 3023, PSYC 3243, PSYC 4183, PSYC 407T/PSYC 408T.

### Laboratory-Based Courses

PSYC 3193(A), PSYC 3353(A), PSYC 3363(A), PSYC 3053(N), PSYC 3083(N), BIOL 3063(N).
A – Applied Psychology Option N – Neuroscience Option

### Applied Option Courses

PSYC 2183, PSYC 3183, PSYC 3193, PSYC 3323, PSYC 3353, PSYC 3363, PSYC 3373, PSYC 3383, PSYC 3623, PSYC 4053, PSYC 4103, PSYC 4423, KINE 2433, KINE 3683, KINE 3693.

### Neuroscience Option Courses

PSYC 3053, PSYC 3083, PSYC 3133, PSYC 3323, PSYC 3383, PSYC 3613, PSYC 4323, PSYC 4343, PSYC 4413, BIOL 3063, BIOL 3143, BIOL 3613, PHIL 3313.

Note throughout that unless otherwise specified, the same course cannot be used to fulfill more than one requirement.

## HONOURS IN PSYCHOLOGY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours or Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. Additionally, a minimum grade of B- is required in all courses offered to fulfill the program requirements below.

**Program Requirements**

Honours in Psychology is available in a BA or BSc program. Regardless of whether a student is in an Arts or Science degree, they must complete a minimum of 54 credit hours (54h) in the Honours program as follows:

1. The Psychology Core (21h).
2. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2213/MATH 2223 or MATH 2233/MATH 2243.
3. The Honours Core (15h).
4. 12h Psychology courses at the 3000 or 4000 level, 3h of which must be selected from the list of laboratory-based courses above.

- Admission to the Honours program is competitive and normally open only to students with a minimum program GPA of 3.33, who have already completed PSYC 3243 with a minimum grade of B-. Admission also requires permission of the Department and agreement of a faculty member in the department to supervise the thesis. Application is made in the penultimate year, following procedures published by the department.

## MAJOR IN PSYCHOLOGY

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) or Bachelor of Science (Major) requirements outlined in the previous section of this Calendar. Additionally, a minimum grade of C- is required in all courses offered to fulfill the program requirements below.

**Program Requirements**

The requirements for the Major are the same for BA and BSc students. Students must complete a minimum of 48 credit hours (48h) in the Major program as follows:

1. The Psychology Core (21h).
2. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2213/MATH 2223 or MATH 2233/MATH 2243.
3. 18h Psychology courses at the 3000 or 4000 level.
4. 3h additional Psychology courses.

## DOUBLE MAJOR

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) or Bachelor of Science (Double Major) requirements outlined in the previous section of this Calendar. Additionally, a minimum grade of C- is required in all courses offered to fulfill the program requirements below.

## DOUBLE MAJOR: PSYCHOLOGY AS THE FIRST MAJOR

**Program Requirements**

The following program requirements are the same for BA and BSc students. Students must complete a minimum of 48 credit hours (48h) in the Major program as follows:

1. The Psychology Core (21h).
2. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2213/MATH 2223 or MATH 2233/MATH 2243.
3. 18h Psychology courses at the 3000 or 4000 level.
4. 3h additional Psychology courses.

## DOUBLE MAJOR: PSYCHOLOGY AS THE SECOND MAJOR

**Program Requirements**

The following program requirements are the same for BA and BSc students. Students must complete a minimum of 42 credit hours (42h) in the Major program as follows:

1. The Psychology Core (21h).
2. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2213/MATH 2223 or MATH 2233/MATH 2243.
3. 15h Psychology course at the 3000 or 4000 level.

## APPLIED OPTION

The applied option can be completed in conjunction with the Bachelor of Arts in Psychology or the Bachelor of Science in Psychology degree programs by completing the requirements as specified below.

## HONOURS IN PSYCHOLOGY (APPLIED OPTION)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements or the Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. Additionally, a minimum grade of B- is required in all courses offered to fulfill the program requirements below.

**Program Requirements**

Students must complete a minimum of 54 credit hours (54h) in the Major program as follows:

1. The Psychology Core (21h).
2. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2213/MATH 2223 or MATH 2233/MATH 2243.
3. 12h Psychology courses at the 3000 or 4000 level selected from the Applied Option courses, of which 3h must be selected from those laboratory-based courses indicated with an (A). This laboratory course can also fulfill the laboratory requirement for the Honours degree, if applicable.
4. The Honours Core (15h).

## MAJOR IN PSYCHOLOGY (APPLIED OPTION)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) or the Bachelor of Science (Major) requirements outlined in the previous section of this Calendar. Additionally, a minimum grade of C- is required in all courses offered to fulfill the program requirements below.

**Program Requirements**

Students must complete a minimum of 48 credit hours (48h) in the Major program as follows:

1. The Psychology Core (21h).
2. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2213/MATH 2223 or MATH 2233/MATH 2243.
3. 18h Psychology courses at the 3000 or 4000 level selected from the Applied Option courses, of which 3h must be selected from those laboratory-based courses indicated with an (A).
4. 3h additional Psychology courses selected from the Applied Option courses.

## NEUROSCIENCE OPTION

The Neuroscience Option can be completed in conjunction with Bachelor of Science in Psychology degree programs by completing the requirements as specified below.

## HONOURS IN PSYCHOLOGY (NEUROSCIENCE OPTION)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science with Honours requirements outlined in the previous section of this Calendar. Additionally, a minimum grade of B- is required in all courses offered to fulfill the program requirements below.

**Program Requirements**

Students must complete a minimum of 57 credit hours (57h) in the Honours program as follows:

1. The Psychology Core (21h).
2. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2213/MATH 2223 or MATH 2233/MATH 2243.
3. PSYC 2133, and one of PSYC 2143 or PSYC 2173 (Note: one of PSYC 2133 or PSYC 2143 will be counted in the Psychology Core).
4. 12h Psychology courses at the 3000 or 4000 level selected from the Neuroscience Option courses, of which 3h must be selected from those laboratory-based courses indicated with an (N). This laboratory course can also fulfill the laboratory requirement for the Honours degree.
5. The Honours Core (15h).

## MAJOR IN PSYCHOLOGY (NEUROSCIENCE OPTION)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Science (Major) requirements outlined in the previous section of this Calendar. Additionally, a minimum grade of C- is required in all courses offered to fulfill the program requirements below.

**Program Requirements**

Students must complete a minimum of 48 credit hours (48h) in the Major program as follows:

1. The Psychology Core (21h).
2. 6h from MATH 1213/MATH 1223 or MATH 1253/MATH 2253 or MATH 1253/MATH 2243 or MATH 2213/MATH 2223 or MATH 2233/MATH 2243.
3. PSYC 2133, and one of PSYC 2143 or PSYC 2173 (Note: one of PSYC 2133 or PSYC 2143 will be counted in the Psychology Core).
4. 18h Psychology courses at the 3000 or 4000 level selected from the Neuroscience Option courses, of which 3h must be selected from those laboratory-based courses indicated with an (N).

### MINOR IN PSYCHOLOGY

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Psychology are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

### Cross-Listed Courses

The following courses may be counted towards major credit in Psychology: BIOL 2013, BIOL 3063, BIOL 3143, KINE 2433, KINE 3683, KINE 3693, PHIL 3313.

## Science, Technology and Ethics

Office of the Dean of Science, Huggins Science Hall, and Office of the Dean of Arts, Beveridge Arts Centre
Coordinators: Dr. Glenys Gibson (glenys.gibson@acadiau.ca) and Dr. Anna Wilks (anna.wilks@acadiau.ca)

Program Offered: Minor

### MINOR IN SCIENCE, TECHNOLOGY AND ETHICS

Multidisciplinary minors offer an alternative to completing the minor requirements for a degree program in a single discipline. Both BA and BSc students are required to complete a minimum of 24 credit hours (24h) in the minor program. The requirements for a minor vary by faculty and program(s) of study. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in Science, Technology and Ethics requires the completion of 12h from the Faculty of Arts (List A) and 12h from the Faculty of Pure and Applied Science (List B). No more than 12h can be at the 1000-level. All courses offered towards this minor must be completed with a minimum grade of C-.

#### Cross-Listed Courses

The following Arts courses may be counted as credit in Science, Technology and Ethics (List A): CLAS 1803, CLAS 2233, CLAS 3133, CREL 2413, ECON 2713, ECON 3433, ENGL 3523, HIST 2283, HIST 2613, HIST 2623, PHIL 1113, PHIL 1413, PHIL 2303, PHIL 2323, PHIL 2713, PHIL 2913, PHIL 2923, PHIL 3713, PHIL 4853, POLS 3213, POLS 3683, POLS 3883, POLS 4483, SOCI 1033, SOCI 2113, SOCI 2223, SOCI 2233, SOCI 2263, SOCI 3263, WGST 1413, WGST 2913.

The following Science courses may be counted as credit in Science, Technology and Ethics (List B): APSC 2813, BIOL 1113, BIOL 1123, BIOL 1853, BIOL 1863, BIOL 2553, BIOL 2563, BIOL 3753, CHEM 1053, COMP 1113, COMP 1813, COMP 2903, ENVS 3113, ENVS 3513, GEOL 1013, GEOL 1023, GEOL 1033, GEOL 1073, GEOL 2703, GEOL 2753, NUTR 1313, NUTR 1323, NUTR 1333, NUTR 1503, NUTR 2323, PHYS 1513, PHYS 1523, PHYS 1543, PHYS 1563, PSYC 1013, PSYC 1023, PSYC 2193.

## Sociology

Department of Sociology; Beveridge Arts Centre
Ph: (902) 585-1493; sociology@acadiau.ca

Sociology is the study of society, social relationships and power dynamics. As a discipline, sociology is committed to enhancing social knowledge and cultivating social change, from local to global perspectives. Our program provides a rigorous foundation in the key methods and theories of sociological inquiry, and offers students a comprehensive understanding of their significance informing diverse areas. Students transferring to the Sociology major must have a grade point average of 2.00.

Programs Offered**:** Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA). Minor

The department offers 9 theme areas of study within the discipline. Students wishing to deepen their understanding of a topic should choose courses within a field of study. The theme areas are:

#### Critical Race and Social Justice

SOCI 2123, SOCI 2133, SOCI 2153, SOCI 2263, SOCI 2413, SOCI 2553, SOCI 2563, SOCI 3133, SOCI 3143, SOCI 4413, WGST 4913.

#### Research Methods/Methodology and Ethics

SOCI 2003, SOCI 2013, SOCI 3103, SOCI 3113, SOCI 3163, SOCI 3473, SOCI 4133.

#### Social Theory

SOCI 2103, SOCI 3013, SOCI 3033, SOCI 3043, SOCI 3093, SOCI 3543, SOCI 4143, WGST 3023.

#### Critical Development and Political Economy

SOCI 2113, SOCI 2533, SOCI 3253, SOCI 3523, SOCI 4123.

#### Critical Health and Food Studies

SOCI 2343, SOCI 3223, SOCI 3263, SOCI 3733, SOCI 4223, SOCI 4263.

**Labour and Migration**
SOCI 2223, SOCI 3253, SOCI 4153, SOCI 4473.

**Gender and Sexuality**
SOCI 2323, SOCI 2363, SOCI 2403, SOCI 2853, SOCI 3183, SOCI 3253, SOCI 3403, SOCI 3803, SOCI 4163, SOCI 4193, WGST 2923/WGST 2933 or WGST 2913

**Critical Criminology and the Sociology of Law**
SOCI 2023, SOCI 2713, SOCI 2723, SOCI 2753, SOCI 3703, SOCI 3733, SOCI 3743, SOCI 4183.

**Culture and Media**
SOCI 2233, SOCI 2533, SOCI 3033, SOCI 4113.

## HONOURS IN SOCIOLOGY

### Graduation Requirements

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar. Additionally, a maximum of 6h of SOCI at the 1000-level may be included in this degree and a maximum of 6h of IDST courses may be counted as Sociology credits.

### Program Requirements

Students must complete a minimum of 60 credit hours (60h) in the Sociology Honours program as follows:

1. Two of the following: SOCI 1013, SOCI 1033, SOCI 1113, WGST 1413.
2. All of the following (24h): SOCI 2003, SOCI 2013, SOCI 2033, SOCI 2103, SOCI 3013, SOCI 4003, SOCI 407T/SOCI 408T.
3. 3h from SOCI 3033, SOCI 3043, SOCI 3093, SOCI 3543, WGST 3023.
4. 3h from SOCI 3103, SOCI 3113, SOCI 3163, SOCI 3433.
5. 3h from SOCI at the 4000 level (not including SOCI 4003, SOCI 407T/SOCI 408T).
6. 21h additional SOCI (12h at the 2000-level and 9h at the 3000- or 4000-level).

- Admission to the honours program is normally open only to students with a minimum program GPA of 3.25, and at least a minimum grade of B- in all Sociology credits. Admission also requires permission of the Department and agreement of a faculty member in the department to supervise the thesis.
- Students are encouraged to take SOCI 2003 and SOCI 2013 in their second year.

## HONOURS IN SOCIOLOGY WITH SECOND MAJOR

### Graduation Requirements

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours (Double Major) requirements outlined in the previous section of this Calendar. Additionally, a maximum of 6h of SOCI at the 1000-level may be included in this degree and a maximum of 6h of IDST courses may be counted as Sociology credits.

### Program Requirements

Students must complete a minimum of 54 credit hours (54h) in the Sociology Honours program as follows:

1. Two of the following: SOCI 1013, SOCI 1033, SOCI 1113, WGST 1413.
2. All of the following (24h): SOCI 2003, SOCI 2013, SOCI 2033, SOCI 2103, SOCI 3013, SOCI 4003, SOCI 407T/SOCI 408T.
3. 3h from SOCI 3033, SOCI 3043, SOCI 3093, SOCI 3543, WGST 3023.
4. 3h from SOCI 3103, SOCI 3113, SOCI 3163, SOCI 3433.
5. 3h at the SOCI 4000 level (not including SOCI 4003, SOCI 407T/SOCI 408T).
6. 15h additional SOCI, (9h at the 2000-level and 6h at the 3000- or 4000-level).

## MAJOR IN SOCIOLOGY

### Graduation Requirements

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar. Additionally, a maximum of 6 credit hours (6h) of SOCI at the 1000-level may be included in this degree.

### Program Requirements

Students must complete a minimum of 48 credit hours (48h) in the Sociology Major program as follows:

1. Two of the following (6h): SOCI 1013, SOCI 1033, SOCI 1113, WGST 1413.
2. All of the following (12h): SOCI 2003, SOCI 2013, SOCI 2033, SOCI 2103.
3. 3h from SOCI 3013, SOCI 3033, SOCI 3043, SOCI 3093, SOCI 3543, WGST 3023.
4. 3h from SOCI 3103, SOCI 3113, SOCI 3163, SOCI 3433.
5. 3h at the SOCI 4000 level (not including SOCI 4003, SOCI 407T/SOCI 408T),
6. 21h additional SOCI. (12h at the 2000-level and 9h at the 3000 or 4000-level.)

- Students are encouraged to take SOCI 2003 and SOCI 2013 in their second year.

## BACHELOR OF ARTS WITH DOUBLE MAJOR IN SOCIOLOGY

### Graduation Requirements

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements

outlined in the previous section of this Calendar. Additionally, a maximum of 6 credit hours (6h) of SOCI at the 1000-level may be included in this degree.

**Program Requirements**
Students must complete a minimum of 42 credit hours (42h) in the Sociology Major as follows:

1. Two of the following (6h): SOCI 1013, SOCI 1033, SOCI 1113, WGST 1413.
2. All of the following (12h): SOCI 2003, SOCI 2013, SOCI 2033, SOCI 2103.
3. 3h from SOCI 3013, SOCI 3033, SOCI 3043, SOCI 3093, SOCI 3543, WGST 3023.
4. 3h from SOCI 3103, SOCI 3113, SOCI 3163, SOCI 3433.
5. 3h at the SOCI 4000 level (not including SOCI 4003, SOCI 407T/SOCI 408T).
6. 15h additional SOCI. (9h at the 2000-level and 6h at the 3000 or 4000-level.)

- Students are encouraged to take SOCI 2003 and SOCI 2013 in their second year.

## MINOR IN SOCIOLOGY

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Sociology are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

### Cross-Listed Courses

The following courses may be counted towards credit in Sociology: COMP 2903, CLAS 2823, CREL 2443, CREL 2533, CREL 3123, CREL 3693, IDST 2253, IDST 3123, POLS 4793, PSYC 2103, WGST 1413, WGST 2923/WGST 2933, WGST 2913, WGST 3023, WGST 3123, WGST 3503, WGST 4913.

# Spanish Studies/Estudios Hispanicos

Languages and Literatures; Beveridge Arts Centre
Ph: (902) 585-1500; Fax: (902) 585-1070; http://languages.acadiau.ca/

Acadia offers a variety of Spanish classes and facilities to meet your interests and needs. Classes are small, generally with fewer than 30 students, who learn through structured activities, classroom participation, and multimedia presentations. Students are able to function in a Spanish-speaking environment by the end of their first year and can achieve fluency in both spoken and written Spanish after three years of study. Emphasis is placed on the communication skills of speaking, listening, reading and writing, and on exposure to elements of the Spanish and Latin American cultures.

Programs Offered: Bachelor of Arts with Major (BA), Minor, Program of Proficiency in Spanish

***Please Note: The Spanish major, minor, and program of proficiency have been suspended for the 2025-2026 Academic Year.***

## MAJOR IN SPANISH

**Graduation Requirements**
In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar. Additionally, students must successfully complete an approved course of study, for a minimum of one semester (15h) at a Spanish-speaking university. Specifically, students will take courses in Spanish Language, Spanish and Spanish American Civilization and Culture, Spanish and Spanish American Literature, and Translation that are equivalent to those required for the Major program in Hispanic Studies at Acadia University.

- Students with some knowledge of Spanish should check with faculty to determine their entrance level.

**Program Requirements**
Students must complete a minimum of 42 credit hours (42h) in the Major program as follows:

1. All of the following: SPAN 1013, SPAN 1023, SPAN 1113, SPAN 1123, SPAN 2113, SPAN 2123, SPAN 3103, SPAN 3203.
2. 3h from SPAN 3213 or SPAN 3223 or equivalent.
3. 3h from SPAN 3313 or SPAN 3323 or equivalent.
4. 3h from SPAN 3413 or SPAN 3423 or equivalent.
5. 3h from SPAN 3513 and SPAN 3523 or equivalent.
6. 3h of either IDST 3463 or IDST 3473.
7. 3h SPAN at the 3000/4000-level.

**Direct Exchange Program with the University of La Rioja**
Students who have a program GPA of 3.00 are accepted into the direct exchange program with the Universidad de La Rioja where they may take 4 or 5 courses in Spanish each semester. In selecting courses and organizing their exchange program, students must consult the Coordinator of the Study Abroad Program.

In the first semester, students register in language courses at The Language Centre of the University of La Rioja (non-academic courses will not count as transfer credits). This Centre, or Fundación, offers Spanish language courses to help exchange students improve their language skills and make the most of their exchange experience. This program offers 3 hours of Spanish Language

instruction per day from Monday to Friday. There are currently two levels of language courses offered by the Centre: intermediate and advanced. The Fundación tests students and places them at their appropriate level. These language courses will not be counted towards the Major program in Hispanic Studies. Instead they will count as transfer credits for electives of the Bachelor of Arts and for the 6h language requirement of the Arts Core.

In the second semester, students proceed to register in courses listed in the Academic Calendar of the Universidad de La Rioja. These courses, to be selected with and approved by the Coordinator of the Study Abroad Program, will function as courses equivalent to the requirements for Spanish Majors at Acadia University.

### DOUBLE MAJOR: SPANISH AS SECOND MAJOR

A Second Major in Spanish requires the completion of a minimum of 42h in the second major following the same requirements as the Major above.

Students with a keen interest in languages who already possess strong skills in French, German, or Spanish may wish to consider pursuing a major in one language with a double minor in the other two. Please note that it is only possible to meet the requirements for this combination within four years if an appropriate choice of credits is made from the beginning of the first year. You should consult as early as possible with a member of the Languages and Literatures if you are considering this course of study.

### MINOR IN SPANISH

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Spanish are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

### PROGRAM OF PROFICIENCY IN SPANISH

This program provides students with an internationally recognized certificate in Spanish. As well as completing the 24 credit hours (24h) required for the minor (SPAN 1013, 1023, 2013, 2023, 2113, 2123, 3103, and 3203), students will be required to pass an external examination.

### Cross-Listed Courses

The following courses may be counted towards major credit in French, German, or Spanish. They are offered in English: IDST 3463, IDST 3473.

## Theatre

Department of English and Theatre; Beveridge Arts Centre
Ph: (902) 585-1502; english.theatre@acadiau.ca

Program Offered: Bachelor of Arts with Major (BA)

The four-year Theatre program offers students two streams: Performance and Production. There is no minor requirement for the Theatre degree.

The Performance stream offers students a solid foundation in acting, movement, voice, theatre history and dramatic literature and includes the opportunity to perform or to work backstage in the productions of the Acadia Theatre Company.

The Production stream offers students the opportunity to focus their studies on the backstage elements of theatre instead of performance. These students will also carry out the backstage work of the Acadia Theatre Company.

***Please note: The Theatre program is not accepting students for Fall 2025.***

### MAJOR IN THEATRE (PERFORMANCE)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 60 credit hours (60h) in the Theatre Major as follows:

1. THEA 1483.
2. 3h from THEA 2823 or THEA 2833.
3. 3h from THEA 2883 or THEA 2893.
4. 3h from THEA 3883 or THEA 3893.
5. 3h from THEA 4833 or THEA 4843.
6. 3h from THEA 2753 or 2763.
7. 3h from THEA 2853 or 2863.
8. THEA 2213, THEA 2223, THEA 3313, THEA 3323, THEA 4413, THEA 4423.
9. 15h from THEA PD03.

10. 6h from ENGL 2183 or ENGL 2193, THEA 2753 or THEA 2763*, THEA 2803, THEA 2823 or 2833*, THEA 2853 or 2863*, THEA 2883 or THEA 2893*, THEA 3133, THEA 3243, THEA 3853, THEA 3863, THEA 3883 or THEA 3893*, THEA 3973, THEA 4013, THEA 4023, THEA 4313, THEA 4323, THEA 4613, THEA 4833 or THEA 4843*

    *whichever has not been taken in fulfilment of categories 2, 3, 4, 5, 6, or 7.

## MAJOR IN THEATRE (PRODUCTION)

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 60 credit hours (60h) in the Theatre Major as follows:

1. THEA 1483.
2. THEA 2823.
3. 3h from THEA 2883 or THEA 2893.
4. 3h from THEA 3883 or THEA 3893.
5. 3h from THEA 4833 or THEA 4843.
6. THEA 2833.
7. APSC 1223.
8. 3h from ART 2013, ART 2023, ART 3013, ART 3023, OR THEA 4613.
9. 3h from BUSI 1703 or MUSI 1013.
10. 3h from THEA 2213 or THEA 2853.
11. 18h from THEA PD03.
12. 12h from ART 2013*, ART 2023*, ART 3013*, ART 3023*, BUSI 1703*, ENGL 2183 or ENGL 2193, ENGL 3293, MUSI 1013*, MUSI 1253, THEA 2123, THEA 2133, THEA 2213*, THEA 2753 or THEA 2763, THEA 2803, THEA 2853*, THEA 2863, THEA 2883 or 2893*, THEA 3043, THEA 3133, THEA 3243, THEA 3863, THEA 3883 or 3893*, THEA 3973, THEA 4613, THEA 4833 or 4843*.

    *whichever has not been taken in fulfillment of categories 2, 3, 4, 6, 7 or 8

## MINOR IN THEATRE

The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a minor in Theatre are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

# Women's and Gender Studies

Office of the Dean of Arts; Beveridge Arts Centre
Coordinator: Dr. Anne Quéma

Women's and Gender Studies emphasizes the importance of gender as a category of critical analysis in areas such as scholarly activity, education, social relationships, sexualities, cultural expression, and politics. Students are encouraged to examine established theoretical frameworks, institutions, ideologies, history, identity, science, language and culture while exploring feminist alternatives.

Programs Offered: Bachelor of Arts with Honours (BAH), Bachelor of Arts with Major (BA), Minor

## HONOURS IN WOMEN'S AND GENDER STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts with Honours requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 48 credit hours (48h) in the Honours program as follows:

1. WGST 1413, WGST 2913, WGST 3023 and either WGST 4913 or WGST 4923.
2. 6h from SOCI 2003, CREL 3123, CREL 3693, POLS 3033 or similar research methods course by permission.
3. WGST 407T/WGST 408T (Thesis).
4. 24h in WGST or cross-listed courses, with a minimum of 12h at the 3000/4000-level.

## MAJOR IN WOMEN'S AND GENDER STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 42 credit hours (42h) in the Major program as follows:

1. WGST 1413, WGST 2913, WGST 3023 and either WGST 4913 or WGST 4923.
2. 3h from SOCI 2003, CREL 3123, CREL 3693, POLS 3033 or similar research methods course by permission.
3. 27h in WGST or cross-listed courses, with a minimum of 12h at the 3000/4000-level.

## SECOND MAJOR IN WOMEN'S AND GENDER STUDIES

**Graduation Requirements**

In addition to the program requirements listed below, students must also satisfy the Bachelor of Arts (Double Major) requirements outlined in the previous section of this Calendar.

**Program Requirements**

Students must complete a minimum of 36 credit hours (36h) in the Double Major program as follows:

1. WGST 1413, WGST 2913, WGST 3023 and either WGST 4913 or WGST 4923.
2. 3h from SOCI 2003, CREL 3123, CREL 3693, POLS 3033 or similar research methods course by permission.
3. 21h from the Women's and Gender Studies courses, with a minimum of 12h at the 3000/4000-level.

## MINOR IN WOMEN'S AND GENDER STUDIES

Multidisciplinary Minors offer an alternative to completing the Minor requirements for a degree program in a single discipline. The requirements for a Minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the Minor program, while BSc students completing a multidisciplinary Minor are required to complete a minimum of 18 credit hours (18h) in the Minor program. Students pursuing a Minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in Women's and Gender Studies requires completion of at least 9h in WGST as follows: WGST 1413, WGST 2913, and WGST 3023. The balance of the minor is to be chosen from the list of courses below. With the exception of WGST and IDST courses, no more than 12h can be in a single discipline. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted towards credit in Women's and Gender Studies:
ART 3513, BUSI 3753, CLAS 2573, CLAS 2663, CLAS 2733, CLAS 3123, CLAS 3573, CLAS 3673, CLAS 3813, CREL 2533, CREL 2553, CREL 3123, CREL 3693, ECON 3883, EDUC 4633, ENGL 2363, ENGL 3553, ENGL 3723, ENGL 3833, ENGL 3843, ENGL 3903, ENGL 3973, ENGL 3983, ESST 2013, FRAN 3203, HIST 2123, HIST 2133, HIST 2263, HIST 2553, HIST 2603, HIST 3393, HIST 3493, HIST 3543, HIST 3643, HIST 3703, IDST 1213/HIST 1913, IDST 3123, MUSI 4243, MUSI 4283, NUTR 2323, PHIL 2233, POLS 3013, POLS 3033, POLS 3513, POLS 3563, POLS 4883, PSYC 2163, PSYC 2183, PSYC 2193, SOCI 2323, SOCI 2343, SOCI 2363, SOCI 2403, SOCI 2853, SOCI 3143, SOCI 3183, SOCI 3223, SOCI 3253, SOCI 3263, SOCI 3403, SOCI 3503, SOCI 3803, SOCI 4163, SOCI 4263, THEA 3973.

# World Literatures

Office of the Dean of Arts; Beveridge Arts Centre
http://arts.acadiau.ca/

Program Offered: Minor

## MINOR IN WORLD LITERATURES

Multidisciplinary minors offer an alternative to completing the minor requirements for a program in a single discipline. The requirements for a minor vary by faculty and program(s) of study. BA students are required to complete a minimum of 24 credit hours (24h) in the minor program, while BSc students completing a multidisciplinary minor are required to complete a minimum of 18 credit hours (18h) in the minor program. Students pursuing a minor should consult with their Academic Advisor to ensure that they will meet the requirements for their specific program of study.

A minor in World Literatures requires the completion CLAS 2573 and CLAS 3573 as well as the requisite number of additional credit hours from the list of courses below. No more than 12h can be in a single discipline. All courses offered towards this minor must be completed with a minimum grade of C-.

### Cross-Listed Courses

The following courses may be counted towards credit in the World Literatures minor:
CLAS 2123, CLAS 3423, ENGL 3663, ENGL 3673, ENGL 3683, ENGL 3743, ENGL 3883, ENGL 3893, FRAN 2113, FRAN 2123, FRAN 3133, FRAN 4503, FRAN 4713, FRAN 4823, FRAN 4913, FRAN 4923, GERM 2913, GERM 2923, IDST 3423, IDST 3463, PHIL 3013, SPAN 3213, SPAN 3223.

## Applied Science

**APSC 1073 Introduction to Engineering**
This course provides students with basic engineering skills and knowledge that will be used through their professional life. The primary topic is technical communications (report writing, referencing sources, unit analyses, data acquisition & interpretation, effective presentations). The history and disciplines of engineering, code of ethics, and engineers' responsibility for safety in the workplace and environmental awareness are also covered. (1h tutorial).

**APSC 1113 Statics**
This is a first course in engineering mechanics, focusing on the analysis of various simple static structures. Topics include force and position vectors, dot and cross products, directed force vectors, equivalent force and moment systems, particle and rigid body equilibrium, two and three force elements, trusses, frames, machines, friction, centroids and moments of inertia. Students complete a major design project for part of their grade. (3h lab). *Prerequisite(s) or Corequisite(s): MATH 1013, PHYS 1013.*

**APSC 1223 Design 1 (CAD)**
An introduction to the engineering design process focusing on the role of graphics in design. Students are instructed in the use of modern CAD software for the production of mechanical drawings and learn standards for same. Free hand sketching, 3-D visualization techniques and report writing are also covered. Students complete a major design project and submit a set of drawings with a written report to obtain a significant portion of their grade. (3h lab).

**APSC 1413 Computer Programming for Applied Science 1**
This course covers the fundamental programming principles of flow control, modularity and structured programming. The student will implement significant programs in the "C" programming language to solve a variety of engineering problems. (3h lab). *Prerequisite(s) or Corequisite(s): MATH 1013.*

**APSC 2113 Thermo-Fluids 1**
This course introduces the sciences of Thermodynamics and Fluid Mechanics in an integrated manner. It covers the basic properties of fluids and gasses, the ideal gas equation of state, simple compressible substances, fluid statics, work and heat interactions, the first and second laws of thermodynamics, enthalphy, entropy and specific heat, steady and unsteady flow, Carnot, Rankine and refrigeration cycles. (3h lab). *Prerequisite(s): APSC 1113, MATH 1023.*

**APSC 2123 Thermo-Fluids 2**
Fluid flow definitions and material properties. Fluid statics, forces on submerged surfaces, buoyancy and stability. Continuity, Euler, energy and momentum equations with engineering applications. Dimensional analysis, similitude, theory of physical models. Reynolds number, laminar vs turbulent flows, friction factor and simple piping systems. Lift and drag of submerged objects. (3h lab). *Prerequisite(s): APSC 2113.*

**APSC 2133 Strength of Materials**
Elastic deformation and failure analysis for common engineering elements. Material properties, stress strain testing and diagrams. Axial, torsion, transverse and bending loads. Stress transformations and principal stresses. Statically indeterminate problems. Design of struts, pins, shafts, pressure vessels, beams and columns. (3h lab). *Prerequisite(s): APSC 1113, MATH 1023.*

**APSC 2213 Electric Circuits 1**
Introductory circuit analysis. Kirchoff's laws, node and mesh analysis, terminal behaviour and circuit equivalence including Thévenin and Norton circuits. Controlled sources and energy storage elements, steady state and transient response of first order networks. Steady state AC power, phasor diagrams, power and power factor are introduced. (3h lab). *Prerequisite(s): MATH 1023.*

**APSC 2223 Digital Systems**
Digital logic, digital systems, machine level representation of data, principles of assembly level machine organization, principles of CPU design. Cross-coded as COMP 2203. (1.5h lab). *Prerequisite(s): Permission of School of Engineering.*

**APSC 2323 Surveying**
Chain, level, transit, EDM; Differential, contour, profile, vertical curves, grade stakes, slope stakes; triangulations, traversing, horizontal curves, coordinates; areas and volumes. Two weeks of field work required. *Prerequisite(s): Permission of School of Engineering.*

**APSC 2413 Engineering Economics**
Topics of theoretical and applied economics of interest and use to engineers and professionals in related fields. Topics include market equilibria, interest rate determination, present and future values, investment criteria, budgeting and replacement analysis, depreciation, taxation, inflation, sensitivity and risk analysis, and multi-staged and multi-attribute decision making. (3h lab). *Prerequisite(s): MATH 1023.*

**APSC 2523 Electric Circuits 2**
Advanced circuit analysis dealing primarily with AC systems. The concepts of sinusoidal excitation, phasors and complex impedance are fully developed. Mutual inductance and magnetically coupled coils are used to describe transformer behaviour and performance. Power calculations for single and balanced three phase systems are covered, introducing the concepts of real and reactive power. Unbalanced networks, grounding and harmonics are also examined. (3h lab). *Prerequisite(s): APSC 2213.*

**APSC 2613 Computer Programming for Applied Science 2**
Computer programming in the C++ language. Topics discussed include object oriented versus procedural programming, objects, stacks, queues, linked lists, trees, various sorting and searching algorithms. Students may apply the theory to develop programs for hardware control, graphics or the numerical solution of various engineering problems. (3h lab). *Prerequisite(s): APSC 1413.*

**APSC 2683 Design 2**
This course provides a project-based exercise in the engineering design process. Students work in teams and as individuals on defined projects which utilize knowledge gained from their previous engineering courses. The projects encompass conceptual design, detailed analysis, engineering drawings, physical model fabrication, experimentation, testing and report writing. (3h lab). *Prerequisite(s): APSC 1223*

**APSC 2713 Dynamics**
The kinematics and kinetics of particles and rigid bodies. Rectangular, tangential/normal and cylindrical coordinates in translating reference frames. Application of Newton's laws, energy method, and impulse and momentum method. Simple mechanisms with emphasis on linkages. (3h lab). *Prerequisite(s): APSC 1113, MATH 1023.*

**APSC 2813 Engineering and the Biosphere**
The course explores the effect of engineered systems and structures on the biosphere. Topics include cell structure and function, microbiology and toxicology, nutrient cycles, communities and ecology as these relate to engineering projects. The application of technology and design to minimize the impact of human activities on living systems is also considered. Laboratory sessions will consist of field-trips to local sites. NOTE: APSC 2813 is not considered an equivalent to any course offered through the Biology department. (3h lab). *Prerequisite(s): CHEM 1023 or permission of the instructor.*

**APSC 2923 Introduction to Industrial Engineering**
This course introduces operations research models. The focus is on formulating, building and solving optimization models, primarily using Microsoft Excel. Topics to be covered include linear programming, assignment models, transportation and network models, project management, decision analysis and risk, queueing models, nonlinear optimization and case studies from other engineering disciplines. *Prerequisite(s): MATH 1023; APSC 1413 or COMP 1113.*

**APSC 3213 Industrial Chemistry**
An introduction to selected chemical industries, with particular emphasis on the Canadian scene. Examination of basic chemical industries and the relationship between chemistry of the process, engineering design, and equipment requirement is performed. (1h lab). *Prerequisite(s): MATH 1023 and CHEM 1023.*

**APSC 3313 Fundamentals of Chemical Process Engineering**
This course seeks to develop the student's ability to perform mass and energy balances on reactive and non-reactive processes. Topics include the fundamental properties of multiphase systems, phase equilibrium, vapour pressure, phase rule, Roault's and Henry's laws and colligative properties. Emphasis is placed on developing problem solving skills. (3h lab). *Prerequisite(s): CHEM 1023 or CHEM 1123, MATH 1023.*

**APSC 3413 Introduction to Environmental Engineering**
Overview of environmental engineering terms and definitions. Air and water quality, impact of domestic, agricultural and industrial operations on the environment. Review of pertinent legislation, measurement techniques and common control methods. Construction practices and their effects on the environment. (3h lab). *Prerequisite(s): CHEM 1023, MATH 1023.*

**APSC 3553 Project Management & Leadership**
This course will introduce concepts and techniques of project management, change management, and leadership for use in professional settings, and provide students with the opportunity to use learned knowledge in practical applications from industry experts. Multiple modules will help students develop skills and build capacity for management and leadership with a focus on maintaining commitment to professional and environmental integrity. *Prerequisite(s): Four or more second-year courses in the Faculty of Pure and Applied Science or permission of the School.*

**APSC 3683 Special Topics Project**
Guided study/project work in a particular area of applied science, carried out under the direction of a faculty member in the School of Engineering. Such work may involve the design, development, implementation and documentation of a significant engineering device or research to better understand an engineering problem. A written report must be submitted and/or a public presentation made upon completion of the work to receive a grade. *Prerequisite(s): Third-year standing and permission of the School of Engineering.*

## Art

**ART 1813 History of Art: Prehistory to 1400**
Art from prehistoric times to Giotto is considered in relation to its cultural and historical context. Cross-coded as HIST 1813. *Antirequisite(s): Credit can be obtained for only one of ART 1813 or HIST 1813.*

**ART 1823 History of Art: 1400 to Present**
Art from the time of Giotto to the present is considered in relation to its cultural and historical context. Cross-coded as HIST 1823. *Antirequisite(s): Credit can be obtained for only one of ART 1823 or HIST 1823.*

**ART 2013 Introduction to Drawing 1**
Studio art course for beginners and those with more advanced technical skills. Students maintain a sketchbook and learn techniques like contour, value studies, textural inquiry and perspective. Realism and abstraction are explored. Emphasis is on collaboration and creativity in a positive studio art environment. Limited to 16 students.

**ART 2023 Introduction to Drawing 2**
This course develops concepts and skills introduced in ART 2013, although ART 2013 is not a prerequisite. Students will learn more complex and imaginative drawing techniques working in realism and abstraction. Emphasis is on collaboration and creativity in a positive studio art environment. Limited to 16 participants.

**ART 2033 Digital Imaging 1**
An introduction to the computer as an art-making tool. Students will learn to create, develop, manipulate and enhance digital images with several applications using their laptop computer as a mobile studio.

**ART 2043 Digital Imaging 2**
The ethics, aesthetics, and theory of digital image making will be addressed. Through assignments and experimentation, the student will create, acquire, manipulate and output of digital images with several applications using the laptop computer as a mobile studio. *Prerequisite(s): ART 2033.*

**ART 2053 Art and the Environment 1**
This course addresses environmental issues through art, with a focus on the landscape model. It provides students with both “hands on” and academic assistance to allow them to undertake visual studies of local urban and rural landscapes, with the possibility of wilderness study. This course utilizes representational drawing and painting, working with drawing materials with an introduction to watercolour.

**ART 2063 Art and the Environment 2**
This course addresses environmental issues through art, with a focus on the landscape model. It allows students to undertake visual studies of local landscapes. Students will develop their own imagery employing both realism and abstraction of their work. This course explores the production of images using acrylic on both paper and canvas surfaces.

**ART 2073 Contemporary Art**
An examination of western art from 1945 to the present. Topics include the development of abstract expressionism, minimalism and post-minimalism, conceptualism, and pluralism in both two-dimensional and three-dimensional media.

**ART 2083 Canadian Art 1**
The history of the visual arts in Canada from the sixteenth century to the early twentieth century with special emphasis on painting and sculpture.

**ART 2093 Canadian Art 2**
The history of the visual arts in Canada from the early twentieth century to the present with special emphasis on painting and sculpture.

**ART 2313 American Art**
Major developments in American art from the colonial period to the present. Major emphasis will be placed on specific artistic groups, major artists, pivotal artistic events, and themes specific to American culture.

**ART 2413 Art of the Nineteenth Century**
Major developments in European art from the time of the French Revolution to the end of the century. Emphasis is placed on movements such as neo-classicism, romanticism, impressionism, and post-impressionism.

**ART 2423 Art of the Twentieth Century 1900-1945**
Major developments in western art from 1900-1945. Major movements such as expressionism, cubism, Surrealism, and Dadaism will be emphasized.

**ART 2623 Seventeenth and Eighteenth Centuries**
Selected work from these centuries is studied in relationship to its cultural, political, and economic context. Emphasis will be placed on such major figures as Rembrandt, Velazquez, Caravaggio, Watteau, and others.

**ART 2813 Art of the Indian Subcontinent**
A general survey of the architecture, sculpture, and painting with particular emphasis on the development of the Hindu temple and of the Buddha image.

**ART 3013 Introduction to Painting 1: Watercolour, Pen, and Ink**
A studio art course in which students will learn pen and ink, as well as complex watercolour techniques, and work to create realistic, multi-technical paintings on paper. Emphasis is on collaboration and creativity in a positive studio art environment. Limited to 14 students. *Prerequisite(s): ART 2013 or ART 2023 or permission of the instructor.*

**ART 3023 Introduction to Painting 2: Acrylic on Canvas**
Students will learn acrylic painting techniques, including colour mixing, scales, and brush work, and will produce a professional-style large-format painting on gallery canvas suitable for exhibition. Realism and abstraction are explored. Emphasis is on collaboration and creativity in a positive studio art environment. Limited to 14 students. *Prerequisite(s): ART 2013 or ART 2023 or permission of the instructor.*

**ART 3033 Art and Identity 1**
In this course, art will be employed as both a tool and potentially a catalyst in our search for the meaning of identity. This will be accomplished through a visual exploration of memory on a personal and cultural level. *Prerequisite(s): ART 2013 or permission of the instructor.*

**ART 3043 Art and Identity 2**
In this course, art will be employed as both a tool and potentially a catalyst in our search for the meaning of identity. This will be accomplished through a visual exploration of memory on a personal and cultural level. *Prerequisite(s): ART 2013 or permission of the instructor.*

**ART 3313 Special Topics in the History of Art**
This course examines selected topics in the history of western and non-western art not included in the established curriculum. *May be repeated for credit with change of topic.*

**ART 3323 Critical Theory and Methods in the History of Art**
A study of various scholarly approaches to the history of art, as well as theories which inform these approaches. *Prerequisite(s): 6h ART and permission of the Department.*

**ART 3513 Woman and Art**
An examination of women in art, as subjects and as artists, from the Middle Ages to the present. Emphasis is placed on their contribution to the history of western art as producers of major paintings, sculptures, and craft objects.

**ART 3613/ART 3623 Independent Study: Studio Art 1/2**
Individual study of problems in studio art, for highly motivated students, developed with and directed by a supervising professor. *Prerequisite(s): Permission of the Department.*

**ART 3713/ART 3723 Directed Readings and Research 1/2**
This course consists of supervised readings and research projects in a specific area of the history of art to be chosen in consultation with a faculty member to culminate in the preparation of a major research paper using technical and critical literature in the history of art. *Prerequisite(s): 12h ART (history) and permission of the instructor.*

## Biology

**BIOL 1113 Organisms and Their Environment 1**
An introduction to ecology, and to the foundations of genetics. (3h lab). *Antirequisite(s): Credit can be obtained for only one of BIOL 1113/BIOL 1123 or BIOL 1813/BIOL 1823. Major credit cannot be obtained for BIOL 1113/BIOL 1123 and BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863. However, students who have taken BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863, and are subsequently transferring to the biology major may use either BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863 as science electives.*

**BIOL 1123 Organisms and Their Environment 2**
An introduction to molecular genetics and evolution. (3h lab). *Prerequisite(s): BIOL 1113 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BIOL 1113/BIOL 1123 or BIOL 1813/BIOL 1823. Major credit cannot be obtained for BIOL 1113/BIOL 1123 and BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863. However, students who have taken BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863, and are subsequently transferring to the biology major may use either BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863 as science electives*.

**BIOL 1813 Human Biology 1**
The fundamental principles of biology with an emphasis on humans. Topics include the foundations of the scientific method, cell cycle and reproduction, mechanisms of inheritance, body organization and systems with an emphasis on organ systems. This course is not recommended for biology majors. *Antirequisite(s): Major credit can be obtained for only one of BIOL 1113/BIOL 1123 and BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863. However, students who have taken BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863 and are subsequently transferring to the biology major may use either BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863 as science electives.*

**BIOL 1823 Human Biology 2**
The fundamental principles of biology with an emphasis on humans. Topics include reproduction, genetics and sexual orientation, behaviour, and evolution. This course is not recommended for biology majors. *Prerequisite(s): BIOL 1813 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BIOL 1813/1823 or BIOL 1853/1863.*

**BIOL 1853 Applied Human Biology 1**
An examination of the human body from an applied perspective. Topics include the foundations of the scientific method, cell cycle and reproduction, mechanisms of inheritance, body organization and systems with an emphasis on organ systems. This course is recommended for Kinesiology majors. (3h lab). *Antirequisite(s): Credit can be obtained for only one of BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863.*

**BIOL 1863 Applied Human Biology 2**
An examination of the human body from an applied perspective. Topics include reproduction, genetics and sexual orientation, behavior, and evolution. This course is recommended for Kinesiology majors. (3h lab). *Prerequisite(s): BIOL 1853 or permission of instructor. Antirequisite(s): Credit can be obtained for only one of BIOL 1813/BIOL 1823 or BIOL 1853/BIOL 1863.*

**BIOL 2003 Introduction to Cell Biology**
This course covers the structure and function of the cell. The structure of prokaryotic and eukaryotic cells is explored with an emphasis on the functions of various organelles in the cell. Topics include organization of the cell, cellular metabolism, cell cycle, and cell communication. This course is meant for non-Biology majors and cannot be used for Biology major credit. *Prerequisite(s): High school Biology or Chemistry, and completion of 27 credit hours. Antirequisite(s): Credit can be obtained for only one of BIOL 2003 or BIOL 2013.*

**BIOL 2013 Cell and Molecular Biology**
An introduction to the principles of cell biology with an emphasis on the organization of cells and the structure and function of cellular constituents. Topics include an overview of cell metabolism, cell communication/specialization and the cell cycle. (3h lab). *Prerequisite(s): BIOL 1113/BIOL 1123 or BIOL 1813 with a minimum grade of C-.*

**BIOL 2033 Principles of Ecology**
Principles of ecology provides an overview of the fundamental concepts of ecology at the individual, population, community, ecosystem, and landscape levels of organization. Emphasis is placed on both developing the theory behind the concepts, and on the application of this theory to environmental issues. (3h lab). *Prerequisite(s): BIOL 1113/BIOL 1123 each with a minimum grade of C-.*

**BIOL 2043 Biodiversity of Plants and Algae**
An introduction to the structure, function, evolution and diversity of plants and algae. (3h lab). *Prerequisite(s): BIOL 1113/BIOL 1123 with a minimum grade of C-.*

**BIOL 2053 Microbial Biodiversity**
This course is an overview of the diversity of microorganisms on the planet, including Archaea, Bacteria, Protista, Fungi and Viruses, and focuses on the unique and vital roles that these organisms play in their environment. This course is intended for Biology and Environmental Science majors. Other majors may be able to take BIOL 2053, BIOL 2253, or BIOL 2453. (3h lab). *Prerequisite(s): BIOL 1113/BIOL 1123 and CHEM 1013/CHEM 1023 or CHEM 1113/CHEM 1123, all with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BIOL 2053, BIOL 2253, or BIOL 2453.*

**BIOL 2073 Animal Biodiversity**
An introduction to the diversity, evolution, structure, and function of vertebrates, invertebrates, and non-photosynthetic protista. The main objective of this course is to introduce students to major groups and demonstrate the variety of relationships within, as well as between, these groups of organisms. (3h lab). *Prerequisite(s): BIOL 1113/BIOL 1123 with a minimum grade of C-; BIOL 2073 may be taken concurrently with BIOL 1113/BIOL 1123 with permission of the Department.*

**BIOL 2173 Research Skills in Biology**
Introduction to laboratory or field research skills in biology with hands-on experience assisting in a research project. Three to five research skills will be developed and may include trouble-shooting procedures, field work, data entry, processing samples, maintaining cultures, or others depending on the project. The research must be supervised by a member of the department (6h/week). *Prerequisite(s): Second-year standing in Biology and permission of supervisor and Department.*

**BIOL 2253 Introduction to Microbiology**
This course introduces the interactions of bacteria, archaea, protists, fungi, and viruses with the human environment, including the important roles of these microbes in production and spoilage of food and beverages, in benefitting human health, in causing human disease, and in shaping the human immune system. This course cannot be used for program credit by BIOL, ENVS, NUTR, or NURS majors. *Prerequisite(s): BIOL 1113/1123 or BIOL 1813 or BIOL 1853, with a minimum grade of C-; CHEM 1013 is highly recommended. Antirequisite(s): Credit can only be obtained for one of BIOL 2053, BIOL 2253, or BIOL 2453.*

**BIOL 2453 Introduction to Microbiology**
This course introduces the interactions of bacteria, archaea, protists, fungi, and viruses with the human environment, including the important roles of these microbes in production and spoilage of food and beverages, in benefitting human health, in causing human disease, and in shaping the human immune system. (3h lab). This course is intended for Nutrition and Nursing majors. *Prerequisite(s): BIOL 1813 or BIOL 2853, and CHEM 1013, all with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BIOL 2053, BIOL 2253, or BIOL 2453.*

**BIOL 2553 Plants in the Modern World**
The role played by plants in everyday life is investigated. Both historical and social developments caused by plants are explored. Current topics may include genetic manipulation of plant material, monoculture and deforestation.

**BIOL 2563 Marine Biology**
An introduction to the oceans of the world and marine organisms, their importance to humans and how they are impacted by society. The diversity and ecology of phytoplankton, zooplankton, invertebrates, fish, mammals, birds, and seaweeds are explored as they relate to ocean processes such as tides, currents, pollution, fisheries, aquaculture, and climate change. Local focus on the Bay of Fundy. *Prerequisite(s): Restricted to first- or second-year students or by instructor permission. Antirequisite(s): Credit can be obtained for only one of BIOL 2563 or BIOL 2663.*

**BIOL 2663 Marine Biology**
This course will teach you about the oceans of the world, what lives in them, how they function, how they are important to humans and our impact on them. *Antirequisite(s): Credit can be obtained for only one of BIOL 2663 or BIOL 2563.*

**BIOL 2813 Human Physiology & Anatomy 1**
The basic anatomical and physiological principles of the human body. Major topics covered include: levels of organization, muscle-skeletal systems, neuroanatomy and physiology, and the integument. *Prerequisite(s): BIOL 1113/BIOL 1123 or BIOL 1813 or BIOL 1853. The BIOL course(s) used as a prerequisite must be completed with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BIOL 2813 or KINE 2413.*

**BIOL 2823 Human Physiology & Anatomy 2**
Major topics covered include the endocrine, cardiovascular, respiratory, urinary, digestive, and reproductive systems. *Prerequisite(s): BIOL 2813* with a minimum grade of C-. *Antirequisite(s): Major credit cannot be obtained for both BIOL 3173/BIOL 3183 and BIOL 2823, although BIOL 2823 can be used as a science elective. Antirequisite(s): Credit can be obtained for only one of BIOL 2823 or KINE 2423.*

**BIOL 2853 Physiology and Anatomy 1**
An integrated approach to understanding human anatomy and physiology. Major topics include levels of organization, muscle-skeletal systems, neuroanatomy and physiology, and the integument. Labs involve use of specimens and models. This course is recommended for nursing students. (3h lab). *Corequisite(s): BIOL 2850L. Antirequisite(s): Credit can be obtained for only one of BIOL 2813, 2853 or KINE 2413. Major credit cannot be obtained for both BIOL 3173/ BIOL 3183 and BIOL 2853, although BIOL 2853 can be used as a science elective.*

**BIOL 2863 Physiology and Anatomy 2**
An integrated approach to understanding human anatomy and physiology. Major topics include the endocrine, cardiovascular, respiratory, urinary, digestive, and reproductive systems. Labs involve use of specimens and models. This course is recommended for nursing students. (3h lab). *Prerequisite(s): BIOL 2853 with a minimum grade of C-. Corequisite(s): BIOL 2860L. Antirequisite(s): Credit can be obtained for only one of BIOL 2823, 2863 or KINE 2423. Major credit cannot be obtained for both BIOL 3173/ BIOL 3183 and BIOL 2863, although BIOL 2863 can be used as a science elective.*

**BIOL 3013 Natural History and Field Biology**
Hands on experience in any or all of terrestrial, fresh water, brackish water, intertidal, and marine-pelagic ecosystems. Relationships among the biota and the physical environment. Sampling design and techniques, data analysis. Field work, labs, lectures, discussions, projects. Presented at the Richardson Field Station in Biology, Bon Portage Island.

**BIOL 3063 Introductory Neuroscience**
A lecture and laboratory course that covers cell biology of neurons, electrical and biochemical signalling, motor control, sensation and perception, learning and memory, and anatomy of the brain and spinal cord. Additional topics include special senses and diseases of the nervous system. Complementary to PSYC 3383. (3h lab). *Prerequisite(s): BIOL 2013 with a minimum grade of C- or PSYC 2133 or CHEM 2713.*

**BIOL 3113 Vertebrate Diversity**
Evolution and diversity of the subphylum vertebrata, including a study of representative species and their morphological and phylogenetic relationships. Emphasis placed on the pivotal role of the dinosaurs in the evolution of tetrapods. (3h lab). *Prerequisite(s): BIOL 2073 with a minimum grade of C-.*

**BIOL 3123 Parasitology**
Parasites are everywhere, and some cause devastating diseases of humans and other animals. Through exploration of parasite diversity, with focus on protozoa, worms, and arthropods, this course analyses benefits and drawbacks of parasitic existence, strategies to enhance transmission, evasion of host immunity, manipulation of host behaviour, and parasite epidemiology. Laboratories feature experimentation with live parasites and examination of preserved material. (3h lab). *Prerequisite(s): BIOL 2013, BIOL 2053 and BIOL 2073, each with a minimum grade of C-.*

**BIOL 3143 Animal Behaviour**
Why animals do what they do from an evolutionary perspective, and the mechanics of how they do it. Optimality, evolutionarily stable strategies, foraging, escaping predators, communication, sexual reproduction and sexual selection, mating systems, parental care, group-living, territoriality, altruism, genetics of behaviour, sensory processing, hormones and control of behaviours, development, bird song, biological clocks. (3h lab). *Prerequisite(s): BIOL 2073 or PSYC 3133 with a minimum grade of C-.*

**BIOL 3153 Principles of Development**
An introduction to the early development of animals. Topics include comparative development of model species, pattern formation, induction, cell migration and differentiation, formation of the vertebrate body plan, metamorphosis, developmental genetics, and evolution. (3h lab). *Prerequisite(s): BIOL 2013 with a minimum grade of C-.*

**BIOL 3173 Animal Physiology 1**
Key physiological systems of animals. Major topics covered including thermoregulation, osmoregulation, acid base balance, respiration and circulation. (3h lab). *Prerequisite(s): BIOL 2013, and BIOL 2073 or BIOT 2013, each with minimum grade of C-. Antirequisite(s): Major credit cannot be obtained for both BIOL 3173/BIOL 3183 and BIOL 2823, although BIOL 2823 can be used as a science elective.*

**BIOL 3183 Animal Physiology 2**
Topics covered include endocrinology, muscle physiology, basic neurophysiology, receptor physiology, movement and navigation. (3h lab). *Prerequisite(s): BIOL 3173, with a minimum grade of C-. Corequisite(s): BIOL 3180L. Antirequisite(s): Major credit cannot be obtained for both BIOL 3173/BIOL 3183 and BIOL 2823, although BIOL 2823 can be used as a science elective.*

**BIOL 3193 Entomology**
An introduction to the structure, function, evolution and taxonomy of the insects, the most diverse and abundant group of animals. Topics also include the ecology, behaviour, and impact, both in medical and economic terms, of these animals. A collection of insects gathered on field trips during regularly scheduled laboratories is required. (3h lab). *Prerequisite(s): BIOL 2073 with a minimum grade of C-.*

**BIOL 3243 Plant Growth and Development**
The factors and mechanisms involved in the regulation of plant growth and development. Topics include phytohormones, differential growth responses, dormancy, photomorphogenesis and photoperiodism. (3h lab). *Prerequisite(s): BIOL 2013 and BIOL 2043, each with a minimum grade of C- or permission of the Department.*

**BIOL 3293 Flora of Nova Scotia**
A survey of the flowering plants and ferns of the province. Identification by technical keys; important plant families; field recognition of common species; habitat preferences; and collecting methods will be covered. A properly annotated plant collection must be prepared. Lecture and Field work. (3h lab). *Prerequisite(s): BIOL 1113/BIOL 1123 with a minimum grade of C- or permission of the Department.*

**BIOL 3363 Biodiversity**
Global patterns of biodiversity and the underlying processes generating them. (3h lab). *Prerequisite(s): BIOL 1113/BIOL 1123 with a minimum grade of C-.*

**BIOL 3373 Aquatic Ecology**
An exploration of freshwater and marine ecosystems emphasizing the relationships between ecosystem structure and function, aquatic community interactions, human activities that influence natural aquatic processes, and new technology and procedures for assessing the health of aquatic ecosystems, and to provide information critical for ecosystem-based management. Laboratory work is mainly field based. *Prerequisite(s): BIOL 1113/BIOL 1123 with a minimum grade of C-, BIOL 2563 or BIOL 2663.*

**BIOL 3383 Data Science in Ecology**
The application of data science in ecology and other disciplines. Curating data, creating plots, tables, and maps (GIS), and production of reproducible research using R/RStudio software are emphasized. Analyses include understanding and interpreting data for biological and ecological processes using observational and environmental data. An introduction to general linear models (e.g. regression, ANOVA, mixed models) is provided. *Prerequisite(s): MATH 2223, MATH 2243, or MATH 2253.*

**BIOL 3413 Research Topics 1**
Laboratory or field investigations, or review of research topics in biology. Students participate in a research study which may include planning, developing suitable procedures and techniques, and/or undertaking a review or critical evaluation. Each student will write a research report and present findings. The research must be supervised by a member of the department. *Prerequisite(s): Permission of supervisor and Department.*

**BIOL 3423 Histology 1**
This course examines the cells, tissues and organs of vertebrate animals, with emphasis on structure, function, development and repair. Histology 1 emphasizes the primary tissue types, as well as the circulatory and nervous systems. (3h lab). *Prerequisite(s): BIOL 2013 with a minimum grade of C-.*

**BIOL 3433 Histology 2**
Emphasizes the structure and functions of organ systems in vertebrates, including digestive, endocrine, reproductive and sensory systems. This course is offered in a learner centred format and is based on collaborative learning. (3h lab). *Prerequisite(s): BIOL 3423 with a minimum grade of C-.*

**BIOL 3463 Evolution**
A critical analysis of concepts and analytical methods in evolutionary biology. Topics include basic population genetics, the analysis of adaptations, natural and sexual selection, species and speciation, systematics and phylogenetic methods. Recent developments in evolutionary biology (e.g., Darwinian medicine, evolution of infectious diseases) are discussed. *Prerequisite(s): BIOL 1113/BIOL 1123 with a minimum grade of C- and completion of 60 credit hours, or permission of the instructor.*

**BIOL 3553 Immunology**
An introduction to the fundamental concepts of the defences of mammals and other organisms at the molecular, cellular and system levels. Topics include the organization and regulation of the immune system, cellular interactions among immune system components, immune dysfunction, and specific immune responses against pathogens. (2h tutorial). *Prerequisite(s): BIOL 2013 and BIOL 2053, each with a minimum grade of C-.*

**BIOL 3573 Applied and Environmental Microbiology**
Earth could not support life without the activities of microorganisms. This course will examine the essential roles that microbes play in the biosphere, the unusual and surprising ways that they have adapted to harsh niches, and how humans are increasingly exploiting their biochemical abilities in food production, water purification, medicines, soil improvement and energy recovery. (3h lab). *Prerequisite(s): BIOL 2053 with a minimum grade of C-; BIOL 2013 with a minimum grade of C- or permission of the instructor. Antirequisite(s): Credit can be obtained for only one of BIOL 3573 or BIOT 3443.*

**BIOL 3583 Eukaryotic Microbiology**
An introduction to the structure, function, evolution and biodiversity of unicellular eukaryotic organisms, including protozoa, microbial fungi and unicellular algae. The ecology of free-living eukaryotic microbes and the immune responses of humans and other animals against pathogenic species will be discussed in detail. Laboratories include experiments with live protozoa and microscopical observations of prepared microbes. (3h lab). *Prerequisite(s): BIOL 2013, BIOL 2053, and BIOL 2073, each with a minimum grade of C-.*

**BIOL 3613 Principles of Genetics**
Provides an overview of the fundamental principles of genetics with a focus on modern theories and techniques including gene editing, regulation of gene expression and the use of genetic information in forensics. The laboratory will train students in the skills used in DNA fingerprinting and analyses. (3h lab). *Prerequisite(s): BIOL 2013 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BIOL 3613 or BIOT 3483.*

**BIOL 3623 Molecular Genetics and Genomics**
An advanced genetics course that builds upon topics covered in Cell and Molecular Biology (BIOL 2013), with a focus on the genomics and genetics of disease. Modern molecular therapies and the role of pharmacogenomics and pharmacodynamics in exploring genetic diseases will be discussed. (3h lab). *Prerequisite(s): BIOL 3613 with a minimum grade of C-.*

**BIOL 3663 Introductory Mycology**
An introduction to Kingdom Fungi, including biology, taxonomy, ecology and identification of fungi, with an emphasis on field collections and documenting Nova Scotia's fungal diversity. Topics include plant-fungal, fungal-animal and fungal-bacterial interactions, fungal secondary metabolites, marine fungi, as well as industrial, medical, veterinary, forestry and agricultural applications of the study of fungi. (3h lab). *Prerequisite(s): BIOL 2013; and BIOL 2043 or BIOL 2053, each with minimum grade of C- or permission of the instructor.*

**BIOL 3693 Ecoimmunology and Disease Ecology**
An integrative exploration of immunity and disease in wild animals. We cover topics related to variation in immunity, influence of the environment on immune function, the spread and impact of disease in animal populations, disease as a selective pressure, and variation in the outcome of infection based on environmental conditions (3h lab). *Prerequisite(s): BIOL 1113, BIOL 1123, BIOL 2013, BIOL 2053, BIOL 2073 each with a minimum grade of C-.*

**BIOL 3753 The Arctic Environment**
An introduction to the extreme world of Arctic terrestrial, aquatic and marine environments and biota. Topics will include the physical and ecological setting, food webs, wildlife diseases, key and iconic wildlife species and threats to their health, as well as an environmental and ecological perspective on history, peoples, and current issues. Focus on Canadian Arctic regions. *Prerequisite(s): BIOL 1113 with a minimum grade of C or permission of the instructor. Recommend completion of at least one second-year biology course.*

**BIOL 3843 Marine Invertebrate Zoology**
A survey of the major invertebrate phyla, their morphology, taxonomy and evolutionary relationships. Local marine species are emphasized and studied from both living and preserved materials. Field trips required. (3h lab). *Prerequisite(s): BIOL 2073 with a minimum grade of C-.*

**BIOL 3883 Chemical Ecology**
Chemical Ecology examines the roles of chemical cues in the lives of animals, plants and microbes, including informative roles, such as mate location, navigation, sociality, resource procurement and defence. Topics will include relationships between chemical cues and environmental issues, including applied aspects and physiological processing of chemicals by organisms. (3h lab). *Prerequisite(s): BIOL Core, each course completed with a minimum grade of C- and CHEM 2513; or CHEM 2713 and CHEM 2813. Corequisite(s): BIOL 3880L or CHEM 3780L. Antirequisite(s): Credit can be obtained for only one of BIOL 3883 or CHEM 3783.*

**BIOL 3993 Special Topics in Biology**
Special topics or projects that are not covered in the regular curriculum. For research-based courses, please see BIOL 3413/ BIOL 4413 and BIOL 407T/408T. *Prerequisite(s): Permission of Department.*

**BIOL 4003 Plants, Habitats and Climate Change**
An in-depth look at major habitats found in tropical, temperate, boreal and Arctic regions and the plants that grow there. We explore the habitat's abiotic and biotic features, and plant strategies that make them successful in these habitats. We discuss how plants can adapt to climate change and environmental change, and the impacts of change on plant communities. *Prerequisite(s): BIOL 1113/1123, and either BIOL 2033 or BIOL 2043 with minimum grades of C-, or permission of the instructor.*

**BIOL 4023 Intellectual Origins of Modern Biology**
A brief survey of major developments in biological thought. The philosophical basis of modern biology will be examined with emphasis on the development of the scientific method. The development of evolutionary thinking and the other major concepts in biology will be traced. May not be used by arts students as a science credit. *Prerequisite(s): 12h in BIOL above the 1000-level, each completed with a minimum grade of C-.*

**BIOL 4033 Scientific Writing**
An introduction to writing clearly for scientists and to communicating research to broad audiences. Through lectures, short exercises, written assignments, workshops, journaling, peer review, and presentations, this course will teach writing for scientific, government, and community audiences, including communicating science through written media and a policy brief. *Prerequisite(s): Completion of the Biology Core, with each course completed with a minimum grade of C-.*

**BIOL 407T Honours Thesis 1**
This course requires a student, with mentorship from a supervisor, to complete a research-based project, obtain and analyze data, and present their research in a thesis format. Prerequisite(s): permission of thesis supervisor and department. *Prerequisite(s): Permission of thesis supervisor and department. Prerequisite(s): Permission of the thesis supervisor and department.*

**BIOL 408T Honours Thesis 2**
This course requires a student, with mentorship from a supervisor, to complete a research-based project, obtain and analyze data, and present their research in a thesis format. *Prerequisite(s): BIOL 407T.*

**BIOL 4103 Animal Ecophysiology and Climate Change**
This course focus on past, present, and projected changes in ecosystems brought about naturally and anthropogenically and their impact on animal inhabitants. The early material focuses on physiochemical changes in environmental conditions, shifting toward an understanding of how such changes influence the physiology and behaviour of different taxa. Laboratory exercises focus on how invertebrate models respond to changing climates. (3h lab). *Prerequisite(s): BIOL 2013 and BIOL 2073 each with a minimum grade of C-.*

**BIOL 4113 Fish Biology**
An exploration of the evolution, zoogeography, functional morphology, taxonomy, reproduction, physiology and behaviour of marine and freshwater fishes on a global scale. Consideration will be given to social, stewardship and conservation aspects of commercial and recreational fisheries. Labs will emphasize morphology and identification of fishes. (3h lab). *Prerequisite(s): BIOL 2073, and BIOL 2563 or one BIOL course at the 3000- or 4000-level. Corequisite(s): BIOL 4110L.*

**BIOL 4123 Mammalogy**
Evolution, functional morphology, reproduction, physiology, evolutionary and behavioural ecology of mammals. Labs stress classification, anatomy and functional morphology. Field trips. (3h lab). *Prerequisite(s): BIOL 2073 with a minimum grade of C-.*

**BIOL 4163 Ornithology**
Birds from an ecological and evolutionary perspective. The fossil record, hybrid zones, biogeography, classification. Flight and associated morphological and physiological changes. Brains and hormones, migration and navigation, song, territoriality, sexual selection, sperm competition, nests, eggs, incubation, parental care, sex ratio manipulation, cooperative breeding, brood parasitism, longevity, population monitoring. (3h lab). *Prerequisite(s): BIOL 2073 with a minimum grade of C-.*

**BIOL 4183 Becoming Human**
Becoming Human is a course on human development. Topics include embryonic and fetal development, and focus on current topics such as infertility, epigenetics, stem cells, placental development and microchimerism. This is a flipped course where students do the preparation before class, and class time is focussed on discussion and other activities. There is no lab. *Prerequisite(s): BIOL 3153.*

**BIOL 4193 One Health**
A focus on the interconnection of human, animal, and environmental health. We explore our roles as biologists in the One Health perspective through themes such as biodiversity loss, pandemics, pollution, and the rise of antibiotic resistance. Emphasis on understanding biological mechanisms coupled with multidisciplinary perspectives. *Prerequisite(s): Completion of the Biology Core, with each course completed with a minimum grade of C-.*

**BIOL 4353 Pathogenic Microbiology**
This course examines the ceaseless struggle between the antimicrobial defences of humans and the virulence factors of bacterial and protozoan pathogens. Important human infectious diseases will be studied as examples of the contest between hosts and parasites, and as examples of how modern medicine is driving evolution of human pathogens. (3h lab). *Prerequisite(s): BIOL 3553 with a minimum grade of C+.*

**BIOL 4413 Research Topics 2**
This course consists of advanced laboratory and/or field investigations of a research topic in biology. Each student will conduct research, write a research paper and may be expected to present their findings. The research must be supervised or co-supervised by a faculty member in the Department of Biology. *Prerequisite(s): BIOL 3413 with a minimum grade of C-.*

**BIOL 4423 Conservation Biology**
The theory and practice of conservation biology including human impacts on the biosphere, historical and present worldviews of humans and nature, Indigenous perspectives and the honourable harvest, protected area design, management and restoration, ecosystem services, extinction risk, invasive species and species at risk. (3h lab). *Prerequisite(s): BIOL 1113 and BIOL 1123 with minimum grades of C- and third-year standing or higher, or permission of the instructor.*

**BIOL 4443 Comparative Animal Physiology**
Lectures, research and student seminars emphasizing physiological similarities and differences of vertebrates and invertebrates. *Prerequisite(s): BIOL 3183 with a minimum grade of C-.*

**BIOL 4543 Coastal and Estuarine Ecology**
The physical, chemical and biological features and processes of coastal and estuarine waters. Ecosystem health indicators and impacts of pollutants, invasive species, tidal energy extraction, rehabilitation of coastal wetlands and estuaries, and other anthropogenic activities will be discussed. Field work on nearby shores and estuaries is required. (3h lab). *Prerequisite(s): BIOL 2073 with a minimum grade of C-.*

**BIOL 4653 Seminar in Ecology**
This course explores current topics in ecology through presentations, analysis, and critiques of recent papers in ecology journals. Students will gain an in-depth expertise in reading, discussing and critiquing the ecological literature.

**BIOL 4663 Bioinformatics**
An introduction to the analysis of biological data using computational tools. Using a combination of high-performance computing and R software, students will apply and interpret bioinformatic techniques including alignment of genome sequence data, genetic mapping, microbiome analysis, and RNA-sequencing. This course will include examples of applications across biological fields such as human health, agriculture, and conservation. *Prerequisite(s): Completion of the Biology Core or COMP 2113 and MATH 1253, with each course completed with a minimum grade of C-.*

**BIOL 4673 Molecular Techniques**
A hands-on introduction to the use of a variety of molecular techniques applicable to questions in ecology, evolution and medicine. Students will be required to complete a project using one or more molecular tools. Projects are determined in consultation with the course instructor (3h lab). *Prerequisite(s): BIOL 1113 and BIOL 1123, or BIOL 1813; BIOL 2013, each with a minimum grade of C- or permission of the instructor. Corequisite(s): BIOL 4670L.*

**BIOL 4683 Biology of Cancer**
This course will explore the cellular and molecular basis of human cancer. Topics will include the various forms of cancer, genetics of cancer, and historical and modern treatment strategies. The goal is to remove the mystery behind cancer and understand the biological processes behind development, diagnoses, and treatment of cancer. *Prerequisite(s): BIOL 3613 with a minimum grade of C-.*

**BIOL 4773 Natural Product Chemistry**
Overview of natural products, biosynthesis of secondary metabolites, modern techniques for studying secondary metabolism and biosynthesis, biological reactions, chemical interactions between living organisms, and classes of bioactive compounds grouped according to building blocks and biogenesis. This course will complement the basic knowledge necessary to students in diverse fields (e.g., organic chemistry, agricultural chemistry, biochemistry, nutrition, and pharmacy). *Prerequisite(s): CHEM 2713 or permission of instructor. Antirequisite(s): Credit can be obtained for only one of BIOL 4773 or CHEM 4773.*

**BIOL 5253 Data Science in Ecology**
The application of statistical modeling of biological processes. Best practices on data curation, creating plots and tables, and production of reproducible research using R software. Analyses include understanding, applying and interpreting biological processes using observational and environmental data using generalized linear models (e.g., regression, ANOVA, mixed models). Model selection, fit, validation and visualization are emphasized.

## Biotechnology

**BIOT 2013 Research Methods in Biotechnology**
This course focuses on methods used in biotechnology research specifically synthesizing content knowledge for real-world application of skills in data management, research ethics, scientific communication, professionalism and biotechnology industry application. Includes a 3h lab. *Prerequisite(s): Enrolment in a Biotechnology degree Option, BIOL 1113, BIOL 1123, CHEM 1013, CHEM 1023.*

**BIOT 3413 Viticulture and Industry Knowledge**
This course provides students with the opportunity to develop a range of skills and knowledge in the dynamic environment of beverage production, including vineyard management techniques and harvesting, production, sensory evaluation and marketing practices. (3h lab). *Prerequisite(s): BIOL 1113, BIOL 1123, CHEM 1013, CHEM 1023, BIOT 2013.*

**BIOT 3423 Biopharma and Industry Knowledge**
This course provides students with the opportunity to develop a range of skills and knowledge in common biopharma processes and how they apply them to solve different problems. *Prerequisite(s): BIOL 1113, BIOL 1123, CHEM 1013, CHEM 1023, BIOT 2013.*

**BIOT 3433 Wine & Beverage Marketing**
Students will learn to design, deliver, and promote wine and beverage products, services, and experiences that will satisfy customers. They will learn research and measurement tools to help them make informed choices about the best promotional tools (e.g., digital) to use in a regulated market. Students will have practical experiences at local wineries, cideries, craft breweries, and distilleries. *Prerequisite(s): Third-year standing and 19 years of age or older.*

**BIOT 3443 Science of Fermentation**
Earth could not support life without the activities of microorganisms. This course will examine the essential roles that microbes play in the biosphere, the unusual and surprising ways that they have adapted to harsh niches, and how humans are increasingly exploiting their biochemical abilities in food production, water purification, medicines, soil improvement and energy recovery. (3h lab). *Prerequisite(s): BIOL 2053 with a minimum grade of C-; BIOL 2013 with a minimum grade of C- or permission of the instructor. Antirequisite(s): Credit can be obtained for only one of BIOT 3443 or BIOL 3573.*

**BIOT 3453 Sensory Analysis**
Principles involved in the evaluation of the appearance, taste, smell and texture of foods, with an emphasis on their role in food product development. Evaluation approaches, including consumer and analytical tests are covered in theory and in practice. (3h lab). *Prerequisite(s): MATH 1223 or MATH 2243, NUTR 1343. Antirequisite(s): Credit can be obtained for only one of BIOT 3453 or NUTR 4223.*

**BIOT 3463 Analytical Techniques in Biopharma**
Modern molecular and atomic spectrometry, gas and liquid chromatography. (3h lab). *Prerequisite(s): CHEM 2813 or CHEM 2853, with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BIOT 3463 or CHEM 3823.*

**BIOT 3473 Bioethics and Professional Practices**
This course provides an introduction to ethical issues in health care and medical research, and it also surveys some of the relevant laws and social policies. Topics include abortion, assisted death, allocation of scarce resources, cloning, decisional capacity and informed consent, genetic enhancement, human and animal experimentation, and stem cell research. *Prerequisite(s): One year of university study. Antirequisite(s): Credit can be obtained for only one of BIOT 3473 or PHIL 2713.*

**BIOT 3483 Applied Microbiology and Molecular Biotechnology**
Provides an overview of the fundamental principles of genetics with a focus on modern theories and techniques including gene editing, regulation of gene expression and the use of genetic information in forensics. The laboratory will train students in the skills used in DNA fingerprinting and analyses. (3h lab). *Prerequisite(s): BIOL 2013 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BIOT 3483 or BIOL 3613.*

## Business Administration

For non-business students, any prerequisite listed for a particular course does not apply if 1) the particular course is required for the program in which the student is registered, and 2) the prerequisite is not a required course for the program in which the student is registered. Otherwise, students will not be permitted to take a course without the necessary prerequisites unless they have the permission of the instructor and Director of the School of Business.

**BUSI 1013 Financial Accounting 1**
An introduction to financial statements from both the preparer’s and user's perspectives. Students learn how to prepare, read and analyze the income statement, balance sheet and cash flow statement. Students will also learn how financial accounting supports organizational decision making.

**BUSI 1053 Introductory General Accounting and Finance**
Introduction to accounting and finance, including i) financial statement preparation, basic financial statement analysis and use in decision making ii) cash flow budgeting, ratio analysis, time value of money and general budgeting. *Antirequisite(s): Credit can be obtained for only one of BUSI 1053 and any of BUSI 1013, BUSI 2223.*

**BUSI 1703 Introduction to Business**
Introduces students to the various structures of business, industry, and organizations, the influence of external factors on organizations, the interrelationship with society, the functional areas of business, and the role of managers. This is done from an historical perspective, understanding how business and our market system have developed over time, and how philosophies and ideologies have influenced businesses development.

**BUSI 2013 Management Accounting**
The development of various accounting concepts as an aid in managerial decisions. An examination of the information provided by financial statements, reports, budgets and other sources of data available to management. The role of accounting in the business environment and its relationship to general decision theory. *Prerequisite(s): BUSI 1013 with a minimum grade of C-.*

**BUSI 2033 Financial Accounting 2**
A continuation of the study of introductory financial accounting from both the preparer's and user's perspectives. Students study financial accounting concepts, methods, standards and techniques. Topical coverage includes cash and internal control, receivables, inventories, capital assets, current and long-term liabilities, shareholders' equity, and financial statement analysis. *Prerequisite(s): BUSI 1013 with a minimum grade of C-.*

**BUSI 2223 Fundamentals of Finance 1**
A combination of lectures, problem-solving, case studies, group discussions, current events and field research are used to introduce students to the theory and practice of corporate finance. The course will focus on the basic concepts of securities markets, financial analysis, cost-benefit analysis and decision making under conditions of uncertainty. *Prerequisite(s): ECON 1013, ECON 1023, and MATH 1613 or MATH 1013. Corequisite(s): ECON 2613 or MATH 1253. Antirequisite(s): Credit can be obtained for only one of BUSI 1053 or BUSI 2223.*

**BUSI 2233 Fundamentals of Finance 2**
A combination of lectures, problem-solving, case studies, group discussions, current events and field research are used to introduce students to the theory and practice of corporate finance. The course continues on from the Fundamentals of Finance 1 course to further explore financial decision-making under conditions of uncertainty and the risk-return trade-off in corporate finance. *Prerequisite(s): BUSI 2223 with a minimum grade of C-.*

**BUSI 2413 Introductory Marketing**
An introduction to marketing for non-business students to develop a broad understanding of marketing concepts. *Prerequisite(s): BUSI 1703 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of BUSI 2413 or BUSI 2423.*

**BUSI 2423 Marketing Principles**
The basic concepts and principles of marketing as practiced by organizations. The intent is to provide students with an understanding of how the marketing function fits within the overall structure of the organization and how it contributes to achieving the organization's mission. Areas include the marketing environment, marketing research, consumer behaviour, the marketing mix (4P's), segmentation, targeting, positions, and marketing strategy. *Prerequisite(s): COMM 1213 with a minimum grade of C-, ECON 1013 and ECON 1023.*

**BUSI 2433 Marketing Strategy**
A continuation of BUSI 2423 with an emphasis on the application of basic concepts and theories to a variety of marketing issues. The intent of this course is to provide students with a deeper understanding of the process of formulation, implementation, and management of marketing strategy. Using the case study method, students will gain experience in analysis and decision-making skills. *Prerequisite(s): BUSI 2423 with a minimum grade of C-.*

**BUSI 2513 Operations Management**
A general management approach to the fundamental aspects of manufacturing and service operations. Decision making in the areas of process selection, capacity analysis, layout, planning and scheduling, job design, quality and inventory control. *Prerequisite(s): ECON 1013, ECON 1023, and MATH 1613 or MATH 1013. Corequisite(s): ECON 2613 or MATH 1253.*

**BUSI 2733 Organizational Behaviour 1**
The behaviour of individuals and groups in organizational settings. The effects of personality, perception, learning and motivation on individual performance. The interaction between individual determinants of behaviour and group dynamics. *No prerequisites. Corequisite(s): BUSI 1703 and COMM 1213, each with a minimum grade of C-.*

**BUSI 2743 Organizational Theory**
This course examines current theory and research on the design and behaviour of effective organizations. It focuses on developing in students an understanding of mainstream and alternatives theories of organizational and economics theories of the firm. *Prerequisite(s): BUSI 2733, with a minimum grade of C-.*

**BUSI 2763 Organizations and Sustainability**
Students will study frameworks, models, and tools for planning for and implementing sustainability focused strategies and activities within organizations. Perspectives on how organization impact social and environmental sustainability will be considered along with how aspects of sustainability impact the various dimensions of organization management (marketing, finance, operations, etc.). Various organizational types (for profit, non-profit, etc.) will be considered. *Prerequisite(s): BUSI 1703 or both of ESST 1003 and ESST 1023.*

**BUSI 2773 Entrepreneurship and Innovation**
An introduction to entrepreneurship theory and practice that considers different ways of defining entrepreneurship and innovation, processes entrepreneurs use to create/discover and exploit opportunities, the social context of entrepreneurship, entrepreneurial ways of thinking and learning, and various kinds of entrepreneurial ventures such as those found within existing organizations and those that aim for social/environmental impact. Includes an experiential learning project. *Prerequisite(s): BUSI 1703 or permission of instructor.*

**BUSI 2803 Business Technology Management**
An examination of the general principles of information technology and current technologies. Emphasis is on managing technology, and the government's effort to develop standards and current industry policies. The management of technology is explored as a means of improving management and practice and creating strategic competitive advantage. The restructuring of organizations to accommodate these new technologies is also explored. *Prerequisite(s): BUSI 1703, COMM 1213, each with a minimum grade of C-, and MATH 1613 or MATH 1013.*

**BUSI 2993 Professional Development**
The course develops professional competencies in verbal communication, interpersonal dynamics, and work ethic. Self-diagnostic frameworks in activities such as career mapping are used to focus student learning on their own traits, aspirations and potential to manage and lead organizations. Participatory workshops and the contributions of guest speakers ensure an applied focus relevant to current workplace needs.

**BUSI 3063 Business Analytics Modeling 1**
An introduction to the use of mathematical modeling to support managerial decision making. Modeling techniques covered include linear programming, regression analysis, time series forecasting and simulation. Spreadsheet software is used as the analytic platform for developing models. *Prerequisite(s): BUSI 2513 with a minimum grade of C-.*

**BUSI 3073 Intermediate Accounting 1**
Financial accounting functions and basic theory including the conceptual framework underlying financial accounting. The CPA Canada Handbook will be used. Recognition, measurement and disclosure of revenue and assets including inventories, investments, capital assets and intangible assets. Suitable for students considering a professional accounting designation or finance career. *Prerequisite(s): BUSI 2013 and BUSI 2033, each with a minimum grade of C-.*

**BUSI 3083 Intermediate Accounting 2**
This course builds on the concepts in BUSI 3073 and deals with liabilities, recognition, measurement and disclosure, shareholders' equity and special topics including corporate income tax and leases. The CPA Canada Handbook will be used. *Prerequisite(s): BUSI 3073 with a minimum grade of C-.*

**BUSI 3093 Sustainability Accounting and Reporting**
The accounting profession is expanding to include areas of sustainability including environmental, social and governance (ESG) factors. In this course, students will gain insight to the rapidly evolving sustainability standards, including the IFRS Disclosure Standards, and the application of other non-financial reporting sustainability frameworks. *Prerequisite(s): BUSI 2033.*

**BUSI 3113 Cost Systems**
Purposes of cost accounting; cost accumulation and responsibility centres; costing methods for product; process, job-orders, joint-products, by-products, and distribution (marketing); cost analysis and systems for planning, controlling, and decision making. Prerequisite(s): *BUSI 2013 and BUSI 2033, each with a minimum grade of C-.*

**BUSI 3233 International Finance**
This course develops ability to understand and analyze issues in financial management in an international context. Emphasis is on decision-making skills in international capital markets and the financial function in the multinational corporation. *Prerequisite(s): BUSI 2233 with a minimum grade of C-, BUSI 3273 or BUSI 3243.*

**BUSI 3243 Intermediate Finance**
This course delves further into the concepts and theories introduced in BUSI 2223, 2233, and introduces valuation, value-based management and strategic financing decisions. The course prepares the student for upper level finance electives. *Prerequisite(s): BUSI 2233 with a minimum grade of C-.*

**BUSI 3253 Personal Financial Management**
This course develops the principles upon which the sound management of personal financial resources are based. Emphasis is placed on the understanding, mathematical analysis and evaluation of financial products and strategies within the context of the Canadian banking and taxation systems. Issues related to providing advice in the context of the financial services industry are emphasized. *Prerequisite(s): BUSI 2223 with a minimum grade of C-.*

**BUSI 3273 Investment Analysis**
Financial assets and the markets in which they are traded. The analysis of common and preferred stock, bonds, warrants, and working knowledge of investing. *Prerequisite(s): BUSI 2233 with minimum grade of C- or permission of the instructor.*

**BUSI 3293 Managing E-Business**
This course focuses on the foundations of e-business, business-to-consumer and business-to-business strategies. Topics include buying and selling on the world wide web, back-office integration, impact of the business-to-consumer e-business on logistics and supply chain management, hardware and software of the internet, intranets and extranets, technological innovations and their impact, and competitive dynamics of firms operating in internet enabled operating environments. *Prerequisite(s): BUSI 2803 and third-year standing or higher.*

**BUSI 3313 Human Resource Management**
The human problems of the management of all work situations, supervision by authority and motivation, communication and introduction of change, organization of work efforts, employee development, performance incentives, personnel policy, and management responsibilities. *Prerequisite(s): BUSI 2733 with a minimum grade of C-.*

**BUSI 3323 Employment Relations**
Employment relations refers to the nature, practice, and outcomes of relations between management and non-union employees under an individual employment contract. The course will consider: the nature of the non-union employment relationship; employee rights in the legislated and common law of Canada; ensuring fairness through employee voice, involvement, and communication; related issues such as discipline, dismissal, job security, and downsizing. *Prerequisite(s): BUSI 3313 with a minimum grade of C-.*

**BUSI 3343 Wine & Beverage Marketing**
Students will learn to design, deliver, and promote wine and beverage products, services, and experiences that will satisfy customers. They will learn research and measurement tools to help them make informed choices about the best promotional tools (e.g., digital) to use in a regulated market. Students will have practical experiences at local wineries, cideries, craft breweries, and distilleries. *Prerequisite(s): Third-year standing and 19 years of age or older.*

**BUSI 3373 Personal Income Tax**
This course explores the taxation of income for individuals and strategies to maximize after tax income. The main focus of the course pertains to issues involving residency, various sources of income, deductions, tax credits, tax rates, retirement planning, and income attribution. *Prerequisite(s): BUSI 2013 and BUSI 2033, each with a minimum grade of C-.*

**BUSI 3383 Taxation for Corporations**
This course focuses primarily on the taxation of corporate income, distributions to owners, commodity tax, and residency issues. *Prerequisite(s): BUSI 2013 and BUSI 2033, each with a minimum grade of C-.*

**BUSI 3433 Consumer Behaviour**
The practices of business firms, the behaviour of consumers and consumer decision making. A behavioural science approach will be used to analyze and evaluate the consumer and business environments and the forces affecting them. *Prerequisite(s): BUSI 2433, with a minimum grade of C-.*

**BUSI 3463 Global Marketing Strategy**
This course focuses on firms' global strategic marketing processes. Major topics covered include challenges of pursuing markets globally, opportunity selection, globalization versus localization, modern global marketing strategies and practices, and different modes of foreign market entry. *Prerequisite(s): BUSI 2433 with a minimum grade of C-.*

**BUSI 3473 Marketing Research**
This course provides students with a solid understanding of the use of marketing research. Exploring methods and procedures used in designing and executing a marketing research project (including analytic processes), students will understand how to evaluate research data and write research reports to support management decision making. *Prerequisite(s): BUSI 2433.*

**BUSI 3483 Business Research**
The conduct of research. Topics will include research design from a variety of methodological perspectives, sampling, data collection, analysis and presentation of results. *Prerequisite(s): Third-year standing or higher in the BBA program.*

**BUSI 3523 Sustainable Technologies**
This course will examine the role of technology in the context of sustainability. Utilizing innovation, societal, political, and historical perspectives, the course examines how technological development has contributed both positively and negatively to the environment crisis. Technological innovations across multiple sectors will be explored. *Prerequisite(s): ESST 1023 and ESST 2003, or BUSI 1703, or permission of the instructor.*

**BUSI 3613 Business Law**
The course raises awareness of the relevance and importance of the law in business and enables students to use knowledge of the law to improve business decisions and avoid unnecessary legal difficulties. The key elements are the Canadian legal system; the basics of contracts and torts; and a framework for identifying and managing legal risks that confront firms. *Prerequisite(s): (BUSI 1703 and COMM 1213) or (LAWS 1003 and ENGL 1413), each with a minimum grade of C-, and with second-year standing or higher.*

**BUSI 3623 Business Law 2**
The course extends the topics of BUSI 3613 into the other areas of law that are important for business and presents the law in a way that relates to the functional areas of business. The course topics are organized under major headings - business organizations; types of property; employment; marketing; and finance. *Prerequisite(s): BUSI 3613 with a minimum grade of C-.*

**BUSI 3643 Consumer Law**
A study of law as it relates to consumers in today's marketplace, with special emphasis on the protection of consumers in their purchase and use of goods and services. Federal and provincial legislation which affects the consumer are explored in detail.

**BUSI 3723 Organizational Change**
A systems approach to change in organizations, illustrating the interrelationships of structure, technology, individual and group behaviour, and organizational climate. A seminar format is used, with discussion centering on a variety of analyses of organizational change, and a selection of case studies. *Prerequisite(s): BUSI 2733 and BUSI 2743.*

**BUSI 3733 Organizational Behaviour 2**
A continuation of BUSI 2733 which focuses on the macro aspect of organizational behaviour. Topics will include group processes in the organization, organizational structure and the relationship of groups and individuals to organizational effectiveness, intergroup conflict, cooperation, power and politics, leadership, communication, team dynamics, and organizational culture and changes. Lectures, case studies, and experiential exercises. *Prerequisite(s): BUSI 2733 with a minimum grade of C-.*

**BUSI 3753 Gender and Diversity in Organizations**
Students will be introduced to the diverse world of work by examining demographic trends, patterns of work, and subsequent legislative and non-legislative attempts to 'manage diversity'. Topics will include: the gendering of work; masculinity and femininity at work; sexuality and sexual orientation at work; race, class, and ethnicity at work; and ability/disability at work. *Prerequisite(s): BUSI 2733 or WGST 2923/WGST 2933 or permission of the instructor.*

**BUSI 3763 Cross-Cultural Management**
This course introduces students to important frames of reference, theories and concepts to understand the behavioural and social implications of managing culturally diverse organizations. *Prerequisite(s): BUSI 2733.*

**BUSI 3786 Doing Business Abroad**
This course provides students with insight into the economic conditions, business practices, work environments, cultural context and societal norms of a foreign country. Learning will occur through travel to the country, site visits, class lectures, and course assignments. Note: Travel fees apply. *Prerequisite(s): Third- or fourth-year students with preference to those enrolled in the BBA program.*

**BUSI 3813 Business Analytics Modeling 2**
This course focuses on developing quantitative models to support decision making in situations involving large amounts of quantitative data. The modeling techniques covered in this course include: classification, clustering, forecasting, and tree methods. *Prerequisite(s): BUSI 3063.*

**BUSI 3853 Design and Business Model Innovation**
This hands-on course explores the relationship between innovation and business strategy, and the role of design thinking in the innovation process. Student teams apply design thinking methods and client engagement skills to develop product and business model designs for an entrepreneurial venture. *Prerequisite(s): BUSI 2803, BUSI 2773, each with a minimum grade of C-.*

**BUSI 3913 Independent Study in Business 1**
Independent study of a topic not covered in the regular curriculum. A major paper or project is produced under the supervision of a faculty advisor. *Prerequisite(s): Third-year standing or higher or permission of the Department.*

**BUSI 3923 Special Topics**
Special projects or topics not covered in the regular curriculum. Visiting instructors or Acadia faculty members may present specific subjects. *Prerequisite(s): Third-year standing or higher or permission of the instructor.*

**BUSI 3993 Honours Seminar**
Seminar, reading and discussion of scientific inquiry, problem formulation, literature research, theoretical formulation, and procedures and organization of honours research project. Development of research proposal. *Prerequisite(s): Third-year standing or higher and registration in BBA Honours program.*

**BUSI 407T Honours Thesis 1**
This course requires the student to propose and carry out a research study under the guidance of an approved supervisor and submit a thesis in accordance with the Program Guidelines of the student's degree discipline and in a format approved by the Honours Committee of Senate. *Prerequisite(s): BUSI 3483 and BUSI 3993 or equivalent and current registration in honours program.*

**BUSI 408T Honours Thesis 2**
This course requires the student to propose and carry out a research study under the guidance of an approved supervisor and submit a thesis in accordance with the Program Guidelines of the student's degree discipline and in a format approved by the Honours Committee of Senate. *Prerequisite(s): BUSI 407T, BUSI 3483 and BUSI 3993 or equivalent and current registration in honours program.*

**BUSI 4073 Advanced Accounting 1**
An advanced financial accounting course that includes reporting for investments, companies subject to significant influence, business combinations and joint ventures. Techniques and theory are covered for other specialized areas including segmented information, interim reporting, foreign currency transactions and operations, hedge accounting, not-for-profit organizations, and government accounting. *Prerequisite(s): BUSI 3083 with a minimum grade of C-.*

**BUSI 4083 Advanced Accounting 2**
An advanced capstone course in accounting designed for students pursuing the CPA pathway. This course introduces integrated case writing and provides an opportunity to revisit key topics in taxation, auditing, and financial reporting with greater depth. *Prerequisite(s): BUSI 4073 with a minimum grade of C-.*

**BUSI 4113 Auditing**
Auditing procedures for balance sheet and profit and loss items, staff organization and reports for internal control; auditing concepts, professional ethics, legal responsibility, and fraud. *Prerequisite(s): BUSI 2033 with a minimum grade of C-.*

**BUSI 4223 Portfolio Management**
This course focuses on modern portfolio theory and the issues and mathematics involved in managing portfolios of securities. Theory is applied to the understanding of pension fund management in a simulation exercise. *Prerequisite(s): BUSI 3273*.

**BUSI 4233 Financial Analysis and Modeling**
The course focusses on developing investment models using financial statements and public market information related to stocks, bonds, and other financial assets. Students will develop applied technical and fundamental models focused on asset selection techniques as well as investment performance measurement and reporting. *Prerequisite(s): BUSI 3243 and BUSI 3273.*

**BUSI 4243 Derivative Securities and Risk Management**
This course provides a comprehensive introduction to derivative securities such as futures, options, and swaps. Various trading strategies are discussed and applications to financial risk management are emphasized. *Prerequisite(s): BUSI 3273.*

**BUSI 4253 Project and Enterprise Valuation**
This course is a study of valuation methods for investments ranging from capital budgeting projects to the mergers and acquisitions of businesses. The theory and application of financial models for decision-making under uncertainty and the evaluation of strategic benefits are explored. *Prerequisite(s): BUSI 3243.*

**BUSI 4313 Labour Relations**
The structure, functions, attitudes, and philosophy of labour organizations in collective bargaining; consideration of the behaviour of the actors in the labour relations scene; and consideration of the basic stages of the labour relations process (organization, certification, negotiation, grievance, arbitration) from the viewpoint of labour, management, and the law. *Prerequisite(s): BUSI 3313.*

**BUSI 4323 Seminar in Labour Relations**
An expansion of BUSI 4313 into such topics as negotiation, grievance and arbitration, the general state of labour relations, the role of unions, Charter of Rights, layoffs, plant closures, and industrial democracy. *Prerequisite(s): BUSI 4313.*

**BUSI 4403 Advanced Marketing Management**
This course builds on BUSI 2433 and examines the nature of marketing strategy from a macro and micro level. The intent of this course is to provide students with the latest issues facing marketing today as regarded by practitioners and marketing scholars. Various areas for discussion include marketing theory, relational exchanges, cognitive and affective consumer trust, diffusion of innovation. *Prerequisite(s): BUSI 2433 with a minimum grade of C-.*

**BUSI 4413 Personal Selling and Sales Management**
This course examines the use of personal selling within the context of the overall promotional effort of an organization, and how the sales function is managed to effectively achieve organizational objectives. Students will gain an understanding of how sales people create value for their customers and organizations, and how sales managers organize, recruit, select, motivate, and control the sales function. *Prerequisite(s): BUSI 2433 with a minimum grade of C-.*

**BUSI 4423 Advertising and Promotion Management**
This course encompasses the set of strategic decisions on the kinds of information needed for effective communication targeting, the development and use of creative strategies, on appropriate media scheduling, and on ways to measure the effects of the integrated marketing communications programs. Practitioner-oriented, it also examines other components of the communications mix including consumer sales and trade promotions, public relations, publicity and corporate sponsorship. *Prerequisite(s): BUSI 2433 with a minimum grade of C-.*

**BUSI 4433 Digital Marketing**
This course builds on BUSI 2423 and BUSI 2433 as it applies and adapts traditional marketing strategy and actions to a digital context, examining the integration of digital marketing as a vital component of overall marketing strategy. Students will learn to evaluate website effectiveness, use search engines efficiently, create effectual social media strategies, and the basics of viral marketing. *Prerequisite(s): BUSI 2433 with a minimum grade of C-.*

**BUSI 4483 Strategic Brand Management**
This course is designed to introduce advanced concepts in branding and brand management to students concentrating in or with a keen interest in marketing. The course will cover the concepts, tools and techniques that are applied to successfully develop new brands and manage established brands. The course will involve lectures, case assignments and a comprehensive project. *Prerequisite(s): BUSI 2433 with a minimum grade of C-.*

**BUSI 4543 Customer Management**
This course builds on BUSI 2423 and 2433 in that it furthers the student's understanding of the importance of dynamic customer management. The course discusses current theory and practice in customer management such as customer relationship management (CRM), direct marketing, database management and marketing, and campaign management. *Prerequisite(s): BUSI 2433 with a minimum grade of C-.*

**BUSI 4553 Venture Creation 1**
Beginning with a hypothesized customer need and a proposed solution, students design experiments to discover whether the concept represents a potentially sound business idea. Lean Startup and customer development methodologies are applied as low-risk means of determining whether they have found a problem worth solving, and whether to proceed with the design and development of the proposed solution. *Prerequisite(s): BUSI 2773 or permission of the instructor.*

**BUSI 4563 Venture Creation 2**
Students begin with a known customer need and a proposed solution, representing a potentially sound business idea. Students iterate through the Lean Startup build-measure-learn cycle by combining design thinking and rapid prototyping with qualitative and quantitative research methods to develop and test their minimum viable product with potential customers and establish product-market fit. *Prerequisite(s): BUSI 4553 or permission of the instructor.*

**BUSI 4613 Small Business Management**
This course is a topical seminar that introduces the context, theory, and practice of small business management. *Prerequisite(s): Third- or fourth-year students.*

**BUSI 4623 Advanced Business Law**
An expansion of BUSI 3613 and 3623 into such topics as E-business government regulation of business, trade secrets, computer law, intellectual property, corporate law. *Prerequisite(s): BUSI 3623.*

**BUSI 4633 Ethics, Morality, and Social Responsibility**
The course examines the challenges of ethical decision making, moral cultivation, and social responsibility in a variety of organizational and industry contexts. Decisions made and actions taken by people in everyday organizational life can have significant ethical implications for broader society. Course materials will explore the complex relationships among corporate social responsibility, individual pursuit of moral cultivation, and broader societal wellbeing. *Prerequisite(s): Third-year standing or higher.*

**BUSI 4653 Strategic Business Development**
This course provides students with the opportunity to practice the design, implementation, and control of business development strategies. It is an operationally oriented course in which the application of business concepts, principles, and methods is important. Students will work in teams and use a computer simulation. *Prerequisite(s): BUSI 2433 with a minimum grade of C-.*

**BUSI 4663 Project Management**
This course provides students with an introduction to the concepts, principles and techniques for the practice of project management. The material discusses the key processes, including initiating, executing, monitoring and controlling of the personnel and resources, to accomplish specific project goals, from both technical and behavioural perspectives. Other topics include project scope and time management, cost, quality and risk management. *Prerequisite(s): BUSI 2513, BUSI 2233 with a minimum grade of C-.*

**BUSI 4773 Social Entrepreneurship**
This course explores the practices of social entrepreneurship and social innovation. A primary focus is the development of new products, services, and organizations that can address complex social and/or environmental problems. Students are introduced to key theories, concepts and issues related to the startup and sustainability of social ventures. *Prerequisite(s): BUSI 2773 or permission of the instructor.*

**BUSI 4883 Decision Support Systems**
The decision-making process and the information needed to support decision making. Discussions and cases centre on the organization environment, communications, quantitative techniques required for successful decision support systems. *Prerequisite(s): BUSI 2803. Open only to fourth-year students.*

**BUSI 4886 Honours Applied Research Project**
This course requires the student to conduct a study with a direct, practical application in a business context. The project will be substantial and grounded in theory, and will have a significant written component. The project will be carried out under the guidance of an approved supervisor. *Prerequisite(s): BUSI 3483 and BUSI 3993 or equivalent and current registration in the honours program.*

**BUSI 4893 Digital Transformation**
In today's economy, information technology has become a driving force that enables gradual changes as well as paradigm shifts. This course offers an in-depth look at digital transformation and disruption. It helps develop the understanding of how digital transformation unfolds and delves into critical issues such as the innovation life cycle, work redesign, and IT governance, compliance, and ethics. *Prerequisite(s): BUSI 2803 and third-year standing or higher.*

**BUSI 4913 Independent Study in Business 2**
Independent study of a topic not covered in the regular curriculum. A major paper or project is produced under the supervision of a faculty advisor. *Prerequisite(s): Fourth-year standing or higher or permission of the Department.*

**BUSI 4923 Special Topics**
Special projects or topics not covered in the regular curriculum. Visiting instructors or Acadia faculty members may present specific subjects. *Prerequisite(s): Fourth-year standing or higher or permission of the instructor.*

**BUSI 4933/4943 Projects in Business**
A project performed under the direction of a faculty member. Note: Students should apply to the school several months before the start of the course. *Prerequisite(s): Permission of the Director of the School.*

**BUSI 4953 Business and Corporate Strategy**
This course establishes a foundation in the area of strategy formulation, implementation and analysis. Students learn from visiting business executives, undertake industry analyses, construct industry value chains, examine mergers and acquisitions, conduct SWOT and scenario analyses, search out new disruptive technologies and use other analytical approaches while profiling the formal strategies of major public companies. (2h Studio) *Prerequisite(s): BUSI 2743, BUSI 2233, BUSI 2433, and BUSI 2513 each with a minimum grade of C-.*

**BUSI 4963 Strategic Issues in Business**
Increasingly, business managers must address concerns of constituents beyond traditional business borders. Through the examination of some of the most important and complex issues facing today's management, students will gain an understanding of strategic fit between business strategies and the external environment. *Prerequisite(s): BUSI 2743, BUSI 2233, BUSI 2433, and BUSI 2513 each with a minimum grade of C-, and BUSI 4953 as either a prerequisite or corequisite.*

## Canadian Studies

**CDNS 2503 Canadian Perspectives 1: Myths and Symbols**
Focusing on the mythologization of Canada, we will critically examine symbols often used to represent and define the nation, such as hockey, the RCMP, and the maple leaf. Each week will be centred on a specific theme that will be explored in readings, class discussions, as well as visual and new media. May be offered for major credit in History.

**CDNS 2513 Perspectives on Canada**
A multi-disciplinary course designed to introduce students to themes in Canadian culture and familiarize them with the methodologies of the humanities. The focus is on the Canadian identity and the many forms in which it has been expressed. May be offered for major credit in History.

**CDNS 2773 Pre-Confederation Canada**
An introduction to Canadian history focusing on Aboriginal societies, New France and British North America to 1867. In addition to general knowledge of Canadian history, students will be introduced to the variety of historical theories and methodologies that characterize the field. *No prerequisite. Antirequisite(s): Credit can be obtained for only one of CDNS 2773 or HIST 2773.*

**CDNS 2783 Canada Since 1867**
A survey of Canadian history since Confederation, focusing on the political, economic, and social developments in the modern age. In addition to general knowledge of Canadian history, students will be introduced to the variety of historical theories and methodologies that characterize the field. *No prerequisite. Antirequisite(s): Credit can be obtained for only one of CDNS 2783 or HIST 2783.*

## Chemistry

**CHEM 0110 Pre-University Chemistry**
Topics from the NS high school chemistry curriculum (Chemistry 11 and Chemistry 12). This course is designed for students who have never taken high school chemistry or who would like to refresh their high school chemistry knowledge. This non-credit course serves as a pre-requisite for courses that require NS Chemistry 11 and 12 or their equivalent.

**CHEM 1013 General Chemistry 1**
An introductory treatment of the fundamentals of chemistry: atoms, molecules, ions, chemical equations, stoichiometry, enthalpy, electronic structure and periodic properties of the elements, chemical bonding, and molecular structure, acids and bases, and gases. (3h lab). *Prerequisite(s): NS 12 chemistry or equivalent with minimum grade of 60% or permission of the Department. Credit for laboratory component cannot be transferred to other Acadia courses with the exception of CHEM 1113. Antirequisite(s): Credit can be obtained for only one of CHEM 1033, CHEM 1013, or CHEM 1113.*

**CHEM 1023 General Chemistry 2**
Properties of gases, liquids, solids, and solutions, chemical kinetics, chemical equilibria, acids and bases, thermochemistry, entropy and free energy, electrochemistry, and organic chemistry. (3h lab). *Prerequisite(s): CHEM 1013. Credit for laboratory component cannot be transferred to other Acadia courses with the exception of CHEM 1123. Antirequisite(s): Credit can be obtained for only one of CHEM 1043, CHEM 1023, or CHEM 1123.*

**CHEM 1033 Introductory Chemistry 1**
Basic concepts in chemistry including stoichiometry, periodic trends and bonding. This course is offered through Open Acadia. The laboratory work consists of video- and computer-based assignments. This course may only be used as a prerequisite for admission to other chemistry courses with the permission of the Department. *Prerequisite(s): NS 12 chemistry or equivalent with a minimum grade of 60% or permission of the Department. Antirequisite(s): Credit can be obtained for only one of CHEM 1033, CHEM 1013, or CHEM 1113.*

**CHEM 1043 Introductory Chemistry 2**
Basic concepts in chemistry, including properties of gases, liquids, solids and solutions as well as acids and bases. This course is offered through Open Acadia. The laboratory work consists of video- and computer-based assignments. This course may only be used as a prerequisite for admission to other chemistry courses with the permission of the Department. *Prerequisite(s): CHEM 1033, CHEM*

*1013, or CHEM 1113. Antirequisite(s): Credit can be obtained for only one of CHEM 1043, CHEM 1023, or CHEM 1123.*

**CHEM 1053 Chemistry and Our World**
This course provides an insight into the roles chemicals play in our everyday world. We will look at the chemistry that underlies issues with toxins, food and nutrition, air and water pollution, climate change, drugs, plastics and agrichemicals. No prior experience in chemistry is necessary for this course. *No prerequisites or corequisites.*

**CHEM 1113 Introduction to Chemistry Physical Sciences 1**
Stoichiometry with applications to basic analytical chemistry, properties of ideal and real gases with applications to chemical processes in the gas phase, chemical equilibrium in the gas phase and in solution with emphasis on acid-base equilibrium, an introduction to chemical thermodynamics with applications to chemical equilibrium and electrochemistry. (3h lab). *Prerequisite(s): NS 12 chemistry or equivalent with minimum grade of 60%; Corequisite(s): 1000-level calculus course. Concurrent registration in a 1000-level physics course is recommended. Antirequisite(s): Credit can be obtained for only one of CHEM 1033, CHEM 1013, or CHEM 1113.*

**CHEM 1123 Introduction to Chemistry Physical Science 2**
Atomic structure and periodic trends with applications to chemical bonding and molecular structure; chemical kinetics, the properties of liquids, solids and solutions; the representative chemistry of Groups 1A through 4A. (3h lab). *Prerequisite(s): CHEM 1113; Corequisite(s): 1000-level calculus course. Concurrent registration in a 1000-level physics course is recommended. Antirequisite(s): Credit can be obtained for only one of CHEM 1043, CHEM 1023, or CHEM 1123.*

**CHEM 2103 Chemical Thermodynamics**
Principles and applications of chemical thermodynamics. Topics normally include the laws of thermodynamics, phase equilibrium, chemical equilibrium, properties of mixtures and Boltzmann distribution. (3h lab). *Prerequisite(s): CHEM 1123 or CHEM 1023 with a minimum grade of C-, MATH 1023, and PHYS 1023 or PHYS 1063; MATH 2013 or MATH 2753 is highly recommended.*

**CHEM 2303 Inorganic Chemistry**
An introduction to atomic structure and bonding in inorganic compounds, with the use of group theory and molecular symmetry, a brief introduction to the coordination chemistry of the transition metals and related topics. (3h lab). *Prerequisite(s): CHEM 1123 or CHEM 1023, with a minimum grade of C-.*

**CHEM 2513 Organic Chemistry 1**
An introduction to organic chemistry covering structure, nomenclature and reactions of the main classes of organic compounds. (3h lab). *Prerequisite(s): CHEM 1023 or 1123 with a minimum grade of C-.*

**CHEM 2533 Organic Chemistry 2**
A more detailed treatment of the chemistry of functional groups with special attention given to carbonyl compounds. The student will be presented with a rigorous discussion of stereochemistry. The student will be introduced to 1-3 step organic reactions in the lab. (3h lab). *Prerequisite(s): CHEM 2513 with a minimum grade of C-.*

**CHEM 2713 Biochemistry**
An introduction to the major organic substances of living organisms, proteins, carbohydrates, lipids, and nucleic acids: structure, analysis and biochemical function. Activity and analysis of enzymes. (3h lab). *Prerequisite(s): CHEM 2513 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of CHEM 2773 or CHEM 2713.*

**CHEM 2773 Biochemistry for Life Sciences**
An introduction to the structure and function of major micromolecules (sugars, amino acids, lipids, nucleosides, nucleotides, vitamins, etc.) and macromolecules (carbohydrates, proteins, enzymes, nucleic acids, etc.) of living systems, food digestion and major pathways for harnessing energy from nutrients. *Prerequisite(s): CHEM 2513 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of CHEM 2773 or CHEM 2713.*

**CHEM 2813 Analytical Chemistry 1: Classical Methods**
An introduction to chemical analysis: statistical data evaluation, gravimetry and titrimetry, basic UV-VIS spectrometry and introduction to chromatography. (3h lab). *Prerequisite(s): CHEM 1023 or 1123 with a grade of C-. Antirequisite(s): Credit can be obtained for only one of CHEM 2813 or CHEM 2853.*

**CHEM 2853 Environmental Analytical Chemistry**
Introduction to chemical analysis with an emphasis on the chemistry of the environment. Examples studied will be taken from air, aquatic, and terrestrial sources. (3h lab). *Prerequisite(s): CHEM 1023 or 1123 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of CHEM 2813 or CHEM 2853.*

**CHEM 3103 Chemical Kinetics**
Principles and applications of chemical kinetics. Topics normally include Maxwell distribution diffusion, viscosity, ionic conduction, reaction rates, reaction mechanisms, photochemistry, collision theory and catalysis. (3h lab). *Prerequisite(s): CHEM 2103 with a minimum grade of C-.*

**CHEM 3113 Quantum Chemistry**
Principles of theoretical chemistry. The fundamental concepts of quantum mechanics are developed and applied to chemical bonding and molecular spectroscopy. Basics of modern computational chemistry are introduced to study the geometry, energy and

spectroscopy of molecules. This course is normally offered every other year. *Prerequisite(s): MATH 1023.*

**CHEM 3143 Surface Chemistry for Life Sciences**
Special topics on the practical aspects of physical chemistry relevant to biological and industrial applications. Emphasis is on colloid, interfacial and surface chemistry. (3h lab). *Prerequisite(s): CHEM 2713 or CHEM 2773 with minimum grade of C-.*

**CHEM 3303 Main Group Chemistry**
A survey of the chemistry and bonding of the main group elements, including compounds with unusual bonding environments. Computational chemistry is introduced as a tool for understanding chemical bonding. (3h lab). *Prerequisite(s): CHEM 2303, with minimum grade of C-.*

**CHEM 3313 Transition Metal Chemistry**
A survey of the chemistry and bonding of the transition metals, including organometallic chemistry and inorganic compounds of biological interest. (3h lab). *Prerequisite(s): CHEM 2303 with minimum grade of C-.*

**CHEM 3513 Intermediate Organic Chemistry**
An intermediate course which will study the chemistry of organic functional groups not covered at the 2000-level. Special attention will be given to the use of sophisticated organic reactions for the synthesis of more complex molecules. Students will be introduced to organic reactions under inert and anhydrous atmosphere. (3h lab). *Prerequisite(s): CHEM 2533, with a minimum grade of C-.*

**CHEM 3523 Structure Determination**
Investigation of molecular structure determination by modern methods. Special emphasis will be placed on nuclear magnetic resonance (NMR) spectroscopy, supplemented by mass spectrometry and IR spectroscopy for structure elucidation. X- ray crystallography is introduced. (3h lab) *Prerequisite(s): CHEM 2303 or CHEM 2513, with minimum grade of C-.*

**CHEM 3723 Metabolism**
An introduction to intermediary metabolism and biochemical genetics. The major degradative and biosynthetic pathways of metabolism; energy changes and metabolic regulation; the molecular basis of genetic processes. (3h lab). *Prerequisite(s): CHEM 2713 with a minimum grade of C-.*

**CHEM 3783 Chemical Ecology**
Chemical Ecology examines the roles of chemical cues in the lives of animals, plants and microbes, including informative roles, such as mate location, navigation, sociality, resource procurement and defense. Topics will include relationships between chemical cues and environmental issues, including applied aspects and physiological processing of chemicals by organisms (3h lab). *Prerequisite(s): CHEM 2513 and BIOL Core or CHEM 2713 and CHEM 2813. Corequisite(s): BIOL 3880L or CHEM 3780L. Antirequisite(s): Credit can be obtained for only one of CHEM 3783 and BIOL 3883.*

**CHEM 3823 Analytical Chemistry 2: Instrumental Methods**
Modern molecular and atomic spectrometry, gas and liquid chromatography. (3h lab). *Prerequisite(s): CHEM 2813 or CHEM 2853, with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of CHEM 3823 or BIOT 3463.*

**CHEM 3913 Research Project 1**
A research project sponsored and approved by one or more faculty members of the department. The student must take an active role in planning and implementation, and submit a written report upon completion of the project. Seventy-two (72) hours of research activity, normally involving laboratory or field work, are required. This course is graded as pass or fail. *Prerequisite(s): 18h laboratory-based chemistry courses with minimum grades of C-; requires permission of the Department, and the availability of a suitable research supervisor.*

**CHEM 3923 Research Project 2**
A research project sponsored and approved by one or more faculty members of the department. The student must take an active role in planning and implementation, and submit a written report upon completion of the project. Seventy-two (72) hours of research activity, normally involving laboratory or field work, are required. This course is graded as pass or fail. *Prerequisite(s): CHEM 3913; requires permission of the Department, and the availability of a suitable research supervisor.*

**CHEM 3910 Chemistry Seminar 1**
A weekly seminar course covering an introduction to a broad range of research topics of current relevance to chemistry and related fields of study. Speakers include faculty from within and outside Acadia University.

**CHEM 3920 Chemistry Seminar 2**
A weekly seminar course covering further exposure to a broad range of research topics of current relevance to chemistry and related fields of study. Speakers include faculty from within and outside Acadia University.

**CHEM 407T Honours Thesis 1**
This course requires participation in original chemical research/education projects involving 72 hours of research activity such as laboratory experiments or fieldwork as well as presentation of research results and written thesis. *Prerequisite(s): Permission of thesis supervisor and department, and 30h of chemistry courses. Corequisite(s): CHEM 4993.*

**CHEM 408T Honours Thesis 2**
This course requires participation in original chemical research/education projects involving 72 hours of research activity such as laboratory experiments or fieldwork, presentation of research results, a written thesis, and an oral defense. *Prerequisite(s): CHEM 407T.*

**CHEM 4123 Physical Chemistry 4**
Introduction to spectroscopy and statistical thermodynamics. The factors determining the intensities and wavelengths of electronic, vibrational and rotational spectra are examined. This leads to the application of spectroscopy as a source of molecular and atomic parameters for use in calculations with statistical thermodynamics. Applications of statistical thermodynamics to selected chemical systems will conclude the course. *Prerequisite(s): CHEM 3103 and CHEM 3113 each with a minimum grade of C-.*

**CHEM 4303 Advanced Main Group Chemistry**
Topics of current interest in main group chemistry are discussed. Emphasis will be on developing research areas in the scientific literature. *Prerequisite(s): CHEM 3303 or CHEM 3313, with a minimum grade of C-.*

**CHEM 4313 Advanced Transition Metal Chemistry**
Topics of current interest in transition metal and organometallic chemistry are discussed. Emphasis will be on developing research areas in the scientific literature. *Prerequisite(s): CHEM 3303 or CHEM 3313, with a minimum grade of C-.*

**CHEM 4323 Advanced Characterization Techniques**
A survey of characterization techniques commonly used in inorganic chemistry, including: multinuclear NMR spectroscopy, EPR spectroscopy, computational chemistry and X-ray crystallography. *Prerequisite(s): CHEM 3523 with a minimum grade of C-.*

**CHEM 4513 Synthetic Organic Chemistry**
The principles involved in the planning and execution of the synthesis of organic molecules. A consolidation of the procedures learned in CHEM 2513, CHEM 2533 and CHEM 3513 with other modern synthetic methods. *Prerequisite(s): CHEM 3513 with a minimum grade of C-.*

**CHEM 4523 Structure and Dynamics in Organic Chemistry**
Includes the description of bonding in organic molecules and the methods for determining, analyzing, and predicting molecular structure, as well as the study of the physical properties and chemical transformations of molecules. Included are the more important reaction mechanisms and the methods by which these are elucidated. *Prerequisite(s): CHEM 3523 with a minimum grade of C-.*

**CHEM 4723 Topics in Biochemistry**
Specific topics of current interest are discussed in some detail. Possible topics include DNA structure and function with an emphasis on topological implications, enzymology, protein structure/function analysis, and molecular genetics. Emphasis will be on current experimental techniques used in biochemistry. *Prerequisite(s): CHEM 3723 with a minimum grade of C-.*

**CHEM 4733 Food Chemistry and Biochemistry**
Chemistry of the major and minor constituents of food. Flavour and colour molecules, additives, contaminants, natural toxicants, and vitamins. *Prerequisite(s): CHEM 2713 with a minimum grade of C-.*

**CHEM 4773 Natural Product Chemistry**
Overview of natural products, biosynthesis of secondary metabolites, modern techniques for studying secondary metabolism and biosynthesis, biological reactions, chemical interactions between living organisms, and classes of bioactive compounds grouped according to building blocks and biogenesis. This course will complement the basic knowledge necessary to students in diverse fields (e.g., organic chemistry, agricultural chemistry, biochemistry, nutrition, and pharmacy). *Prerequisite(s): CHEM 2713 or permission of instructor. Antirequisite(s): Credit can be obtained for only one of CHEM 4773 or BIOL 4773.*

**CHEM 4803 Advanced Chemical Instrumentation**
Advanced analytical techniques are discussed. Topics may include advanced mass spectrometry, advanced chromatography, capillary electrophoresis, sample preparation, sampling methods, data acquisition, electroanalytical chemistry, spectrometry and surface analytical chemistry. *Prerequisite(s): CHEM 3823 with a minimum grade of C-, or CHEM 2853 with a minimum grade of B-.*

**CHEM 4823 Applied Environmental Chemistry**
Applications of analytical chemistry in elucidating the chemistry of the natural environment with an emphasis on current environmental issues. The course will focus on the role of analytical chemistry in studying the chemical composition of the natural environment and the cycling of natural and anthropogenic chemicals. *Prerequisite(s): CHEM 3823 with a minimum grade of C-.*

**CHEM 4833 Instrument Design, Data Acquisition, Measurement, and Control**
The techniques required to use computers to read, store and analyze experimental data, as well as control experiments in real time, are introduced. Topics include a programming language, signal conditioning and processing, and several interfacing techniques. A major component of the course is a project involving interfacing a computer to an experiment. A rudimentary knowledge of computer programming is recommended. (6h lecture/lab). *Prerequisite(s): PHYS 2203. Antirequisite(s): Credit can be obtained for only one of CHEM 4833 or PHYS 2213.*

**CHEM 4903 Advanced Chemistry Laboratory**
A capstone laboratory course designed to integrate and augment the content of previous chemistry courses. This may include labs in organic, inorganic, physical, analytical chemistry, and biochemistry. Students will select and carry out a number of short projects which are developed by faculty members in the various areas of chemistry. Students will be evaluated on their development of experimental procedures based on the chemical literature, scientific record-keeping, and preparation of reports. (no lectures, 6h lab). *Prerequisite(s): CHEM 3823, and fourth-year standing in Chemistry.*

**CHEM 4993 Honours Research Methods**
Introduction to research methods. Taught as a directed readings course by a research supervisor, the course will emphasize critical evaluation of peer-reviewed chemistry literature and communication of chemistry research in oral and written form. Course is graded as Pass/Fail. *Corequisite(s): CHEM 407T.*

## Classics

See the Latin and Greek sections for additional Classics courses.

**CLAS 1113 Introduction to Greek Civilization**
The main facets of ancient Greek civilization (its history, literature, thought, and art) with particular attention paid to that which unifies and defines it as Greek and determines the nature and extent of its contribution to western civilization.

**CLAS 1123 Introduction to Roman Civilization**
The main facets of ancient Roman civilization (its history, literature, thought, and art) with particular attention paid to those features which determine the nature and extent of its contribution to western civilization.

**CLAS 1803 Introduction to Archaeology of the Ancient Mediterranean World**
An introduction to the history of archaeological exploration in Prehistoric Europe, the Ancient Near East, and the Graeco-Roman Mediterranean with an emphasis on the development of archaeological methodology and theory. *Antirequisite(s): CLAS 2503.*

**CLAS 1813 Introduction to Greek and Roman Literature**
An introduction to the literature of the ancient Greeks and Romans (in translation), including a range of ancient genres (including epic poetry, drama, and the novel) and themes. This course will familiarize students with some of the unique elements of the study of ancient literature and basic concepts in narrative theory.

**CLAS 2013 Greek Art and Architecture**
The art of ancient Greece in its cultural and historical context, with emphasis upon architecture, sculpture, and painting. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2023 Roman Art and Archaeology**
An introduction to Roman art and architecture from the founding of Rome to the reign of Constantine. Attention is given to art historical and archaeological approaches to Roman visual and material culture in public and private contexts with an emphasis on the city of Rome and Italy. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2233 Scientific Terminology**
The Greek and Latin origins of the technical vocabulary of modern science. For biology and pre-med students, but of obvious interest to students of all sciences. An examination of the Greek and Latin root words in scientific terminology and their combination and modification in English. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2453 History Alive! Ancient Greece and Rome**
In this course, students will bring ancient history to life by playing two full “Reacting to the Past” games: “The Threshold of Democracy: Athens in 403 BCE” and “The Crisis of Catiline: Rome, 63 BCE”. Students are assigned character roles with specific goals: they must communicate effectively, collaborate, and compete to advance their objectives to try to “win” the game. *Prerequisite(s): Second-year standing or above.*

**CLAS 2273 Gods in Classical Myth**
A study of the gods of classical mythology in Greek and Roman art and literature. From eighth century BCE epic poets of the Greek world through to the reassessment of classical myth under Roman authors. The course also considers contemporary approaches to studying classical myth. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2283 Heroes in Classical Myth**
A study of the hero and heroine in Greek and Roman mythology through art and literature. From legends of prehistoric Greece and the epic cycles of the eighth century through to the refashioning of the hero and heroine in Roman myth, this course emphasizes contemporary approaches to interpretation of the heroic quest. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2293 Cult of the Grape in Ancient Greece**
From the cultivation of the grape to the cult of Dionysus, god of wine, this course shall study the economic, religious, social and cultural impact of wine on ancient Greece, with a special focus on classical Athens. *No prerequisite.*

**CLAS 2553 Archaeology of Egypt**
Egypt from the rise of civilization to the Roman era. This course examines the social and political institutions of Egypt from the perspective of archaeology and art history, including cultural and political relations with other major civilizations of the ancient world. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2573 The Homeric Vision**
A study of the cosmic vision of the relationship between gods and heroes in Homer's epic poems, the Iliad and the Odyssey, that informed the Greek institutions of polis (state) and oikos (family), paying special attention to the concept of gender and the status and role of men and women. May be offered for major credit in English and Women's and Gender Studies. *No prerequisite.*

**CLAS 2583 Ancient Greece & Rome in Popular Culture**
Classical culture in contemporary art, literature, and the popular culture of advertising, comics, film, music, graphic novels, sport and video games. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2663 Classical Greece: State and Society**
A study of the social, economic and political institutions of classical Greece (450-350 BCE). Special attention will be paid to political constitutions, influence of gender on the roles of men and women in Greek society, institutionalization of pederasty, household management, status of women and children, and practice of slavery. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2673 Rome: Republic and Empire**
This course examines Rome's political and institutional history with an emphasis on the evolving nature of state and society as documented in literary, epigraphic and archaeological evidence. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2693 Special Topics**
*Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2733 The Archaeology of Daily Life in the Ancient Mediterranean**
A study of the physical remains of the ancient Mediterranean world and how archaeologists use this evidence to recreate socio-cultural history in the region. Specific topics include the structure of the home, gender roles, and domestic spaces; food and drink; trade and the economy; religious practice and festivals; public spaces and markets; laws and legal procedures; and sport and entertainment. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 2823 Race and Ethnicity in the Ancient Mediterranean**
Students explore ancient views of race, ethnicity, and the 'other' (foreigners, 'barbarians', enslaved people) through an examination of art, literature, and archaeological remains. By analyzing primary sources and material culture, we engage with evidence for ancient perspectives on ethnicity, investigate current scholarship on ancient perceptions of identity, and connect the study of classical antiquity to modern notions of race. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 3013 Pompeii and Herculaneum: Life and Death on the Bay of Naples**
An examination of the archaeological sites of Pompeii and Herculaneum. Topics include destruction, discovery, and conservation; the use of literary and epigraphic evidence with material culture to reconstruct social, political and religious life; the economic role of the countryside; and the reception, collection and ownership of archaeological remains. *Prerequisite(s): 30h of courses or permission of the instructor.*

**CLAS 3113 Roman Law and Society**
A seminar course on Roman law from the earliest legal texts to their codification under the emperor Justinian. Topics include the development of private and criminal law; treatises of the Roman jurists; the role of law in shaping social, political, and economic life of the Roman world; and the influence on later western legal systems. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 3123 Gender and Sexuality in the Ancient Mediterranean World**
A study of the social and cultural dimensions of gender and sexuality in the ancient Mediterranean world with a focus on the cultures of the ancient Greeks and Romans. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 3133 Nature in Ancient Greece**
A study of various aspects of engagement with nature in ancient Greek culture and society: economic engagement with the natural environment; civic engagement with nature in rural and urban settings; spiritual engagement with nature in art, myth and religion; intellectual engagement with nature in literature and philosophy. Familiarity with ancient Greece is not a prerequisite. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 3333 Greek Historians and Historiography**
A study of the origin and development of historiography in ancient Greece involving the intensive study of the major classical historians in translation. May be offered for major credit in history. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 3423 Greek and Roman Novel**
The prose romance and novel of the later Greek and Roman world in the context of the social, intellectual, and cultural life of this era.

*Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 3453 Fieldwork in Classical Archaeology**
A seminar in archaeology and field methods offered in the summer, typically off campus. This course involves a 30-day study period in the Mediterranean focusing on classical archaeology. Due to funding and supervision this will be offered with limited enrolment. *Prerequisite(s): 3h from CLAS 1503, CLAS 1803, CLAS 2013, CLAS 2023, or equivalent.*

**CLAS 3573 The Eternal City: Visions of Heaven and Hell**
A comparative study of the 'eternal city' in Virgil's Aeneid and Dante's Divine Comedy as rival visions of human community (paying special attention to the concept of gender and the status and role of men and women) based on different conceptions of the divine and the afterlife. May be offered for major credit in English and Women's and Gender Studies. *No prerequisites.*

**CLAS 3663 Temples, Sanctuaries, and Sacred Space in Ancient Greece**
An examination of the archaeological and literary evidence for ancient Greek religion, cult, and ritual practices. Attention is given to religious practice and space in both private and public spheres, the development of Greek sanctuaries and the worship of the Olympian Gods, festivals, temples, processions, and sacred calendars in ancient Greece. *Prerequisite(s): Third-year standing or permission of the instructor.*

**CLAS 3673 Ritual, Mystery and Temple in Roman Religion**
An examination of the archaeological and literary evidence for the religions of Rome. Attention is given to private and public religious activities and their roles in supporting the state. As religion is an aspect of daily life in which women and slaves had significant roles, gender and status are important components of the subject. May be taken for Women's and Gender Studies credit. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 3693 Special Topics**
*Prerequisite(s): 30h of university courses or permission of the instructor.*

**CLAS 3813 Ancient Greece and Rome in Film**
This course examines 20th-21st century cinematic representations of the ancient Graeco-Roman Mediterranean. Films are viewed weekly, and ancient texts and assigned readings offer an opportunity to reflect on how our modern visions of the ancient world attempt to represent the realities of the past while simultaneously shedding light on our contemporary society, politics, gender roles, and popular culture. (3h lab). *Prerequisite(s): Third-year standing or permission of the instructor.*

**CLAS 4023 Honours Seminar**
This course will help prepare students for writing and Honours Thesis. Students will explore the process of writing a thesis, from initial idea, through creating proposals, and doing research and writing on this scale. Other topics may include grant applications, conferences, publishing, graduate programs, and careers in the field. Evaluation is on a Pass/Fail basis. *Prerequisite(s): Permission of the Department.*

**CLAS 407T Honours Thesis 1**
*Prerequisite(s): Students must have permission of Thesis Supervisor and Department to do a Classics Thesis.*

**CLAS 407T Honours Thesis 2**
*Prerequisite(s): CLAS 407T.*

## Communication

**COMM 1013 Communication for Kinesiology**
This course will help kinesiology majors master effective written and oral communication skills to succeed in the field. Students will be given practically oriented theory plus various writing assignments and public speaking challenges. To address the interdisciplinary nature of the field and related issues in communication ethics, a contextual approach to formal (scholarly and professional) communication will be emphasized. *Prerequisite(s): BKIN and BScN students only. Antirequisite(s): Credit can be obtained for only one of COMM 1013 or COMM 1213.*

**COMM 1213 Business Communication 1**
An introductory course designed to help students develop the skills necessary for effective communication in the workplace and other professional environments. Communication concepts are introduced to provide a foundation for the work and students learn appropriate strategies, approaches, and formats for writing various business/professional documents. Presentation techniques and collaborative communication methods are also discussed and practiced. *Prerequisite(s): Open to Business and Computer Science students only (or with instructor permission.) Antirequisite(s): Credit can be obtained for only one of COMM 1213, COMM 1013, or CODE 1043.*

**COMM 1223 Public Speaking/Presentations**
This course is designed to help students become more comfortable, confident, and proficient in speaking circumstances and in delivering presentations or speeches. To assist students in the development of the skills necessary for effective and engaging oral communication, public speaking/public communication concepts, techniques, and strategies are identified, discussed, and practiced. Stage-fright/anxiety management is also addressed.

## Community Development

**CODE 1013 Leadership in Community Development**
A theoretical and experiential investigation of leadership and group dynamics for professional and voluntary settings. Emphasis is given to the application of theory for effective leadership of groups and organizations within a community development context. *Prerequisite(s): Restricted to first-year CODE students. Antirequisite(s): Credit can be obtained for only one of CODE 1013 or ESST 2003.*

**CODE 1023 Environment and Sustainable Society**
Humanity is facing a global environmental and sustainability crisis due to its use of resources, activities and lifestyles, particularly by wealthier populations. This introductory course explores dimensions of this crisis including climate change, food systems, oceans, life cycle analysis and consumerism. It also examines hopeful innovations and accomplishments by individuals, organizations and communities in shifting to more sustainable societies. *Prerequisite(s): Restricted to first-year CODE students and first-year ESST students or by permission of the Department.*

**CODE 1033 Community Development**
An exploration of the characteristics of healthy communities and models of community building as a means to enhance quality of life for individuals and groups. The course takes a systems approach in providing an overview of the principles and strategies for the assessment and development of community wellness, drawing on examples from geographic communities and communities of interest. (1.5h lab*). Open only to Community Development majors, or with permission of the Department.*

**CODE 1043 Communication and Professional Skills for Community Development**
Communication and professional skills are essential for students in community development, both during and after their degree. Be it emails, articles, essays, or reports, quality writing for diverse audiences is critical. This course focuses on the creative and technical aspects of writing, develops presentation skills, and provides strategies to succeed in university and the community, both academically and professionally. *Prerequisite(s): BCD students only. Antirequisite(s): Credit may be obtained for only one of CODE 1043 or COMM 1013, or COMM 1213.*

**CODE 1523 Outdoor Recreation Management**
This course examines the foundations of outdoor recreation management. Emphasis is placed on the role that outdoor recreation and adventure plays in people's lives and the management challenges inherent in protecting outdoor settings to provide high quality experiences. *Open to non-majors.*

**CODE 1533 Sustainable Tourism**
Sustainable tourism provides a framework for examining tourism. Topics include tourist behaviour, tourism planning, socio-cultural, marketing, and the role of tourism organizations. Case studies will emphasize both theoretical and applied dimensions of sustainable tourism. *Open to non-majors.*

**CODE 1543 Critical Perspectives of Sport and Physical Activity in Society**
This course encourages students to think critically about the nature of sport and physical activity in relation to leisure. Particular attention is placed on how sport and physical activity have become both the products of and producers of dominant contemporary cultures. *Open to non-majors.*

**CODE 1963 Introductory Topic in Community Development**
This course takes advantage of particular expertise of permanent or visiting faculty to provide introductory exposure to theory and practice concerning a contemporary issue such as entrepreneurship, advocacy or fields. This course focuses on a professional competency such as entrepreneurship, advocacy or reconciliation that can be further cultivated throughout a student's degree program.

**CODE 2023 Community Development Research Methods**
The role of research within community development. Issues related to the development of research questions, and the collection, interpretation and application of research data are examined. *Prerequisite(s): Second-year standing in BCD.*

**CODE 2033 Sustainable Community Development**
This course explores the various dimensions of community capital (e.g., natural, environmental, economic, and socio-cultural capital) and how these can be managed for sustainable community. Tools and concepts for conceiving, planning, and managing sustainable community will be examined from a transdisciplinary perspective drawing on readings, case studies, and field experiences. *Prerequisite(s): Second-year standing in BCD and ESST or permission of the Department.*

**CODE 2513 Concepts of Leisure**
This course will examine individual and group leisure behaviour, and the many roles of leisure in society. An emphasis will be placed on the social construction of leisure within Canadian society. *Prerequisite(s): Second-year standing in BCD and ESST or permission of the Department.*

**CODE 2613 Facilitation and the Art of Gathering**
This course explores theories and practices of group development and facilitation in community and interpersonal group contexts. It introduces a range of facilitation concepts and strategies to develop cohesiveness and trust, maximize equitable and participatory processes, welcome and listen to diverse viewpoints, and transform conflict into creative cooperation. Concepts will be applied, with an

emphasis on experiential learning. *Prerequisite(s): BCD students who have completed 30h or more or permission of the Department.*

**CODE 2623 International Community Development**
This course situates community development within the broader global context and draws connections between relevant historical, social, economic, political, and environmental perspectives. Students will explore the personal and collective implications of responsible global citizenship and community development practice through the use of case studies, first voice scholars and practitioners, and active learning methodologies. *Prerequisite(s): BCD students who have completed 30h or more or permission of the Department.*

**CODE 285A Special Topics in Community Development Practice**
This applied half-credit (1.5h) course focusses on developing professional skills and applying them in community development settings. It builds on core theory and concepts, and helps students appreciate and experience the challenges in applying them in organizational and community settings. The course topic and content will vary based on student interests, community opportunities, and faculty experience.

**CODE 3013 Community Design, Wellness and Active Living**
A key challenge for all communities is to manage their infrastructure to enhance community wellness while ensuring long-term social, economic, and environmental sustainability. This course examines the influence of a community's infrastructure--defined as the interacting system of physical structures, services, institutions, and policies that impact a community's overall physical, emotional, spiritual, and economic health--on active living. *Prerequisite(s): Third-year standing in BCD, ESST, or KINE or permission of the Department.*

**CODE 3023 Community Program Design**
The course examines the community and recreation programming process from organizational culture, through program development, to implementation and evaluation. Case studies as well as intensive small group work to design and lead a significant community program are used to facilitate program design understanding and skills. *Prerequisite(s): Third-year standing in BCD or permission of the Department.*

**CODE 3033 Rural Community Development**
This course examines how varying perspectives about rurality impact rural communities locally and globally. Students will gain an in-depth understanding of contemporary issues facing rural communities and historical processes that have shaped today's rural world. They will also explore how equity, diversity, and inclusionary practices play out in rural communities and how rural communities respond to challenges and build resilience. *Prerequisite(s): Third-year standing in BCD or ESST or permission of the Department.*

**CODE 3043 Renewable Energy and Community**
Renewable energy (wind, solar, marine, geothermal) is explored in the context of its impacts on the economic, environmental, and societal dimensions in community. Emphasis on the role of renewable energy to address climate change, energy security, energy poverty, and economic self-determination is explored through scholarly literature, case studies, and field experiences. *Prerequisite(s): Third-year standing in BCD, ESST, ENVS, or permission of the Department.*

**CODE 3513 History and Philosophy of Leisure**
A historical and philosophical overview of the roots of leisure, the conditions in society that have affected leisure, and the societal and institutional responses to those conditions through recreation management and community development. *Prerequisite(s): Third-year standing in BCD or permission of the Department.*

**CODE 3523 Parks/Open Space Resource Development**
A seminar which explores issues and management topics related to human use of parks and open space. Seminars will address a variety of ethical and technical topics including environmental impact assessment, sustainable development and system policy. *Prerequisite(s): Third-year standing in the BCD or ESST or permission of the Department.*

**CODE 3543 Natural Resource and Environmental Management**
The exploration of theory and issues in natural resource and environmental management with emphasis on rural community development issues, ecosystem management, outdoor recreation and nature-based tourism. The theoretical focus will be on policy decision making. Case studies will be drawn from forestry, agriculture and land-use planning fields as well as natural resource recreation and tourism, and parks and protected areas management. *Prerequisite(s): Open to non-majors, third-year standing or permission of the Department.*

**CODE 3553 Leisure Education Principles and Processes**
This course will focus on understanding the sources of leisure education in society today, principles that underlie leisure education, and approaches used to educate various segments of the population about leisure. Various models, assessment tools, and intervention strategies of leisure education are introduced and discussed. Content will include the design, delivery, and evaluation of various types of leisure education initiatives. *Prerequisite(s): Third-year BCD standing or permission of the Department.*

**CODE 3563 Environmental Education**
Environmental education is critical to shifting toward a more sustainable society. This seminar, emphasizing experiential and community learning, provides an overview in leisure, educational, community and work settings. Emphasis is on philosophy, concepts and techniques required to create powerful interactive programs. (2.5h lab). *Prerequisite(s): CODE 1023, ENVS 1013 or permission of the Department, open to non-majors.*

**CODE 3573 Festival and Special Event Management**
A systematic approach to the planning, development, marketing and staging of major community events and festivals as tourist attractions, catalysts for development, and image builders for attractions, communities and destinations areas. Particular attention will be given to the needs of performers, participants and local residents as they relate to the fields of event tourism and festival and event management. *Prerequisite(s): Third-year standing in BCD or permission of the Department.*

**CODE 3583: Diversity, Equity, and Social Justice**
This course will examine the challenges, rewards and best practices of how communities embrace diversity, while creating a culture of equity and inclusivity. Using problem-based learning and critical reflection students will explore diversity and inclusion topics of interest that relate to community engagement. *Prerequisite(s): Third-year standing in BCD or permission of the Department.*

**CODE 3593 Ecotourism and Nature Based Tourism**
An examination of ecotourism's and nature tourism's impacts on host communities, natural resources, visitors, and community infrastructure as well as its influence on broader environmental, social/cultural, and economic sustainability processes. Illustrative case studies will be drawn from a broad range of Canadian and international examples (open to non-majors). *Prerequisite(s): Third-year standing or permission of the Department.*

**CODE 3603 Sustainable Food Systems and Community Development**
This course uses an experiential approach to understanding sustainable food systems theory and practice. Students will explore the current and historical context, and applications of sustainability, citizenship, sovereignty, security, and policy in food and food systems. Through hands on activities and field trips, students will learn foundational food skills and broaden their capacity as growers, eaters, and food citizens. *Prerequisite(s): Third-year standing in BCD or ESST or permission of the Department.*

**CODE 3963 Special Topics in Community Development**
In-depth study of a selected current topic in the field. This course is designed to enable students to take advantage of a particular expertise of visiting or permanent faculty and will be offered from time to time as circumstances dictate. *Prerequisite(s): Permission of the Department.*

**CODE 3973 Explorations in Community Development Education**
An exploration of professional development opportunities outside the traditional university course structure that are not normally found in professional institutes, workshops and mini-courses. Evidence of credit hour course equivalency, relevance to the student's specific program of study, and suitable academic standards must be provided prior to participation. A written report, with possible additional academic assignments, is required. *Prerequisite(s): Permission of the Department.*

**CODE 4013 Strategic Planning for Community Development**
An exploration of the conceptual and procedural theory regarding planning and public policy in community development. Emphasis will be placed on organizational, community, and governmental decision-making processes. The laboratory focuses on planning applications. (1.5h lab). *Prerequisite(s): successful completion of all CODE Core courses at the 1000-, 2000-, and 3000-levels or permission of the Department.*

**CODE 4033 Senior Seminar in Community Development**
The capstone course provides opportunities to critically reflect on community development issues. Local, regional, national, and international examples of social change, advocacy, and sustainability are explored through the application of community development concepts and tools. *Prerequisite(s): Successful completion of all CODE Core courses at the 1000-, 2000-, and 3000-levels or permission of the Department.*

**CODE 4059 Community and Professional Engagement**
This team-taught course provides opportunities for final year students to apply their accumulated knowledge and expertise in professional community development experiences. Students normally complete a three-week community development project (locally or internationally) and a six-week professional placement or with departmental permission complete a nine-week professional placement that integrates an advanced community development research project. *Prerequisite(s): Successful completion of all CODE Core courses at the 1000-, 2000-, and 3000-levels or permission of the Department.*

**CODE 407T Honours Thesis 1**
This course requires the student to propose and carry out a research study under the supervision of an approved supervisor and submit a thesis in accordance with the Department Honours Program Guidelines and in a format approved by the Honours Committee of Senate.

**CODE 408T Honours Thesis 2**
This course requires the student to propose and carry out a research study under the supervision of an approved supervisor and submit a thesis in accordance with the Department Honours Program Guidelines and in a format approved by the Honours Committee of Senate. *Prerequisite(s): CODE 407T.*

**CODE 4963 Directed Study in Community Development**
This course is a supervised study of current knowledge in a selected topic. A major paper or project is produced in conjunction with a faculty advisor. The study will be carried out in accordance with the procedures of the program. *Prerequisite(s): Permission of the instructor.*

**CODE 4973 Independent Study in Community Development**
A substantial research project chosen in consultation with the faculty advisor to reflect student interest and the application of community development theory. The project seeks to draw an original conclusion based on information derived from research. The study will be carried out in accordance with the procedures of the program. *Prerequisite(s): Permission of the instructor.*

## Comparative Religion

**CREL 1213 World Religions Part 1**
The history, beliefs, practices and contemporary relevance of the Hindu, Buddhist, Confucian, Taoist, Zoroastrian, Judaic, Muslim and Christian faiths. After outlining methods of understanding different ways of being religious the course examines the components of larger streams of tradition and compares and contrasts their respective beliefs and practices. *Corequisite(s): Credit can be obtained only if students register in CREL 1223 Part 2 during the same academic calendar year. Antirequisite(s): Credit can be obtained for only one of CREL 1213/CREL 1223 or CREL 1206.*

**CREL 1223 World Religions Part 2**
The history, beliefs, practices and contemporary relevance of the Hindu, Buddhist, Confucian, Taoist, Zoroastrian, Judaic, Muslim and Christian faiths. After outlining methods of understanding different ways of being religious the course examines the components of larger streams of tradition and compares and contrasts their respective beliefs and practices. *Corequisite(s): Credit can be obtained only if students register in CREL 1213 Part 1 during the same academic calendar year. Antirequisite(s): Credit can be obtained for only one CREL 1213/CREL 1223 or CREL 1206.*

**CREL 2206 (CREL 2213/CREL 2223) Intro to Biblical Studies**
The origins, early history and documents of Judaism and Christianity. The religious, social and cultural significance of the scriptures will be stressed, and the techniques of historical and literary criticism will be introduced.

**CREL 2413 Ecology and Religion**
This course reviews the relationship between religion and the environment from two perspectives. It first traces how traditional religions (Eastern, Western, Aboriginal) define things. Second, it provides an overview of contemporary ecological spirituality in Western society, including ecoactivism, ecofeminism, deep ecology, and animal rights.

**CREL 2443 Health, Illness and Religion**
An examination of the different ways health and illness are related to religion. Ideas of sickness and techniques of healing will be studied in a variety of traditional and modern contexts. We will explore how differing religious and medical systems sustain a variety of understandings of the human person, culture/society relationships, and cosmological views. *Prerequisite(s): One-year university.*

**CREL 2533 “Cults” New Religious Movements**
An examination of practices and self-understandings of New Religious Movements (NRMs, i.e., Scientology, Neo-paganism (Wicca), Satanism, Falun Gong, Branch Davidians) in North America. Topics include the social scientific study of NRMs; historical roots and teachings; issues of popularity and interpretation; and special consideration of gender in the emergence and form of NRMs.

**CREL 2553 Goddesses and Women of Power**
An examination of goddesses, female religious powers and women manifesting divine power in a variety of cultures: Indigenous, eastern and western. Consideration will be paid to the intertwined emergence of feminist scholarship on religion and feminist spirituality. *Prerequisite(s): One-year university.*

**CREL 3013 Hate Groups and/as Religion**
Intersectional examination of practices and self-understanding of North American hate groups or religious groups whose dominant teaching promotes hatred or persons or groups due to ethnicity, religion, gender, sexual orientation, or other identity. Special consideration of gender in the formation of such groups. Topics: social scientific study of NRMs; historical roots/teachings of hate groups; issues of popularity and interpretation. *Prerequisite(s): Second-year standing or above.*

**CREL 3123 Writing Life: Worldviews and Experience**
Students will conduct field-based research documenting life stories and engage in an on-the-ground introduction to interviewing and analysis of worldviews and experience. Students will learn culturally appropriate protocols involved in ethnographic research, including life history and feminist methodologies, approaches to interviewing and participant-observation. These skills and methodologies apply to similar work in other disciplines.

**CREL 3363 Special Topics**
*Prerequisite(s): 30h or permission of the instructor.*

**CREL 3693 Fieldwork in Ritual Studies: Researching Ritual on The Ground**
Examination of theoretical and methodological issues arising in the interdisciplinary and feminist approach to the study of ritual. Special attention is given to the study of lived ritual practice and to ritual as a conceptual lens for cultural analysis. Students conduct fieldwork, learning culturally appropriate methodologies for participant-observation, description and analysis.

## Computer Science

**COMP 1113 Computer Programming 1**
Introduction to the field of computer science and computer programming. Topics include fundamental programming constructs, algorithms, and problem-solving. Lecture and lab. No programming experience required. *Prerequisite(s): Mathematics 12 (or equivalent) or Precalculus 12 (or equivalent) or 3h of Mathematics. Corequisite(s): COMP 1110L. Antirequisite(s): Credit can be obtained for only one of COMP 1113 or COMP 1893. Students who receive credit for COMP 1233 may not subsequently receive credit for COMP 1113.*

**COMP 1123 Computer Programming 2**
Topics include object-oriented programming, declarations and types, fundamental techniques in graphics, event-driven programming, subclasses and inheritance in object-oriented programming, recursion, and file processing. Lecture and lab. *Prerequisite(s): COMP 1113 with a minimum grade of C-. Corequisite(s): COMP 1120L. Antirequisite(s): Credit can be obtained for only one of COMP 1123 or COMP 1233.*

**COMP 1233 Introduction to Computer Science**
Introduction to both procedural and object-oriented programming for those students with previous programming experience. Topics include control statements, functions and algorithms, problem-solving, inheritance, polymorphism, recursion, and file processing. Lecture and 1h Lab. *Corequisite(s): COMP 1230L. Antirequisite(s): COMP 1113, COMP 1123, APSC 1413. Credit can be obtained for only one of COMP 1113 and COMP 1233; however, students who have taken COMP 1113 and subsequently take COMP 1233 may count COMP 1113 as a Computer Science elective.*

**COMP 1243 Computer Concepts for Programmers**
Introduction to computer concepts for programmers. Topics include the command line environment, shell programming, version control, debugging, text editors, word processing, spreadsheets, file management, data handling, and cloud-based environments. *Prerequisite(s): COMP 1113 or COMP 1233.*

**COMP 1813 Computer Concepts and Applications**
Introduction to computer concepts and hands-on experience with basic applications. Topics include how to create effective web pages, powerful presentations, dynamic spreadsheets, efficient word processing, and simple database applications. No prior computer knowledge assumed. Students pursing a degree, major, second major, or honours in Computer Science may not take COMP 1813, and can not use it for credit towards graduation requirements.

**COMP 1893 Multimedia-Based Introduction to Programming**
An introduction to programming by writing computer programs to manipulate images and other media. No prior computer knowledge assumed. *Antirequisite(s): Credit can be obtained for only one of COMP 1113 or COMP 1893.*

**COMP 2103 Computer Programming 3**
Topics include fundamental programming concepts, algorithms and problem solving, fundamental data structures, recursion, the imperative programming paradigm, structured design, compiled and scripting languages, program correctness, robustness, and portability, interfacing with operating system. Lecture and lab. *Prerequisite(s): COMP 1123 or COMP 1233 with a minimum grade of C-.*

**COMP 2113 Data Structures and Algorithms**
Topics include introduction to abstract data specification, implementation and testing, introduction to algorithms and their analysis. *Prerequisite(s): COMP 1123 or COMP 1233 with a minimum grade of C- and either MATH 1323 or MATH 1333 with a minimum grade of C-.*

**COMP 2203 Computer Architecture and Organization 1**
Topics include digital logic and digital systems, machine level representation of data, assembly level organization and architecture. (1.5h lab). *Prerequisite(s): 6h of mathematics cross-coded as APSC 2223.*

**COMP 2213 Computer Architecture and Organization 2**
Topics include memory system organization and architecture, interfaces and communication, functional organization, multiprocessing and alternative architectures, performance enhancements. *Prerequisite(s): COMP 2203 plus 6 additional hours of computer science, each with a minimum grade of C-.*

**COMP 2663 Software Engineering 1**
Topics include software requirements and specifications, methods and tools for object-oriented analysis and design, introduction to software validation, introduction to design patterns and frameworks, programming with components, using APIs, software tools and environments, software processes (introduction), software evolution (introduction), software project management. *Prerequisite(s): COMP 1123 or COMP 1233 with a minimum grade of C-.*

**COMP 2853 Handling Data: Concepts and Applications**
This course provides hands-on experience in managing research data from when it is collected to the final report. Includes data collection, storage, data manipulation, data analysis, generating charts and graphs, effective methods of presenting information in both reports and presentations. *Prerequisite(s): 3h COMP or equivalent word processing and spreadsheet experience.*

**COMP 2863 How Websites Work**
Topics include an introduction to Web fundamentals, and programming techniques for Web site development. Students pursuing a degree, major, second major, or honours in Computer Science may not take COMP 2863, and can not use it for credit towards graduation requirements. *Prerequisite(s): 3h COMP or permission of school.*

**COMP 2873 Building Web-Based Applications**
Development of dynamic Web applications using database technology. Topics include an introduction to Web development frameworks, and building Web sites which access data stored in a database backend. *Prerequisite(s): COMP 2853 and COMP 2863.*

**COMP 2903 Computers and Society**
Topics include the technical, economic, legal, political, social, ethical, and professional issues related to the widespread use of computers. *Prerequisite(s): 3h COMP with a minimum grade of C-.*

**COMP 2923 Special Topics**
*Prerequisite(s): Permission of the School of Computer Science.*

**COMP 3033 Full-Stack Cloud Computing**
Theory and hands-on experience with the Internet and Web infrastructure, E-commerce and M-commerce concepts, both client-side and server-side software technologies, database, E-payment, security and authentication, CSS, XML, and mobile data access and Web standards. *Prerequisite(s): COMP 1123 or COMP 1233 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of COMP 3033 or COMP 2513.*

**COMP 3123 Security**
Topics include cryptography, security issues and network and data level security. *Prerequisite(s): COMP 2113, MATH 1253 or MATH 2213/2223, and MATH 1413 or Math 1313, each with a minimum grade of C-. Antirequisite(s): COMP 2523.*

**COMP 3343 Data Communications and Computer Networks**
Topics include theory and applications of data communications systems; language of data, coding for communications, transmission media, error control, channels, modems, communications system design, terminal selection and cost analysis. *Prerequisite(s): COMP 2213 and MATH 1253 or MATH 2213/2223 with a minimum grade of C-.*

**COMP 3403 Analysis of Algorithms**
Brief review of computer representation and manipulation of mathematical structures. Introduction to models of computations, basic programming techniques for efficiency (recursion, balancing back-tracking, etc.), complexity theory, estimation and measurement of efficiency of algorithms, and proving algorithms optimal. *Prerequisite(s): COMP 2113, MATH 1023, MATH 1413 or MATH 1313, MATH 1323 or MATH 1333, each with a minimum grade of C-.*

**COMP 3413 Automata, Formal Languages, and Computability**
Automata theory, formal languages, computability and complexity, including the Chomsky hierarchy for languages, decision problems for languages, theoretical computability, non-computable functions and related problems. *Prerequisite(s): COMP 2113, MATH 1413 or MATH 1313, MATH 1323 or MATH 1333, each with a minimum grade of C-.*

**COMP 3503 Data Analytics**
Methods and technologies surrounding the capture of organizational data; the preparation and modelling of that data to identify patterns, make predictions, or inform decision making. Topics include: the data analytics process, data warehousing, data engineering, data visualization, data mining and machine learning. (1h lab). *Prerequisite(s): COMP 2113, COMP 2103, MATH 1253 or MATH 2213/2223, and MATH 1413 or MATH 1313, each with a minimum grade of C-.*

**COMP 3513 Systems Analysis and Design**
Introduction to the tools and techniques of information systems analysis and design and the project management process. The analysis and specification of systems requirements will be covered, as well as the design of system data, input, output and processes. A typical business case study project will constitute a major portion of the course. *Prerequisite(s): COMP 1113, COMP 1233, COMP 1893 or COMP 2863, each with a minimum grade of C-.*

**COMP 3553 Computer Graphics**
Selected higher-level concepts in computer graphics, such as display devices, display files and data structures for graphics, interactive and dynamic display techniques, three-dimensional graphics, shaded and colour graphics. Graphics language standardization, and device-independent software. *Prerequisite(s): COMP 2113, MATH 1013, MATH 1413 or MATH 1313, and MATH 1323 or MATH 1333, each with a minimum grade of C-.*

**COMP 3583 Human Computer Interaction**
Examines the human factors associated with information technology and seeks to provide students with knowledge of the variables likely to influence the perceived usability, and hence the acceptability, of any information technology. This course introduces a series of techniques for developing and evaluating usable software, with a focus on both mobile and traditional computing hardware. *Prerequisite(s): COMP 2113.*

**COMP 3613 Artificial Intelligence 1**
Topics include an introduction to artificial intelligence, solving problems with search, knowledge and reasoning, uncertain knowledge and reasoning, supervised and unsupervised machine learning, artificial neural networks and reinforcement learning. (1.5h lab). *Prerequisite(s): COMP 2113, MATH 1413 or MATH 1313, MATH 1323 or MATH 1333, MATH 1253 or MATH 2213/2223, each with a minimum grade of C-.*

**COMP 3663 Software Engineering 2**
Topics include software evolution, project management, standards and practices of requirements analysis, design, implementation and testing, configuration and change management, quality assurance, resource and cost estimation, risk management, professional and ethical responsibilities, team application of SE methodology to the development of a software product. *Prerequisite(s): COMP 2663 with a minimum grade of C-.*

**COMP 3703 Translators**
Basic components and techniques of translators for programming languages; preprocessors, compilers, interpreters, assemblers. *Prerequisite(s): COMP 2103, COMP 2113, MATH 1413 or MATH 1313, MATH 1323 or MATH 1333, each with a minimum grade of C-.*

**COMP 3713 Operating Systems**
Major operating systems principles, and the interrelationships between the operating system and the architecture of computer systems. Topics from memory and process management, and concurrent computation in operating systems. *Prerequisite(s): COMP 2103, COMP 2113, and COMP 2213 each with a minimum grade of C-.*

**COMP 3753 Database Management Systems**
The analysis, design, operation and maintenance of large information systems, especially those using database techniques, on-line processing, and networking. The most common models for database management systems with commercial examples. *Prerequisite(s): COMP 2113, MATH 1413 or MATH 1313, MATH 1323 or MATH 1333, each with a minimum grade of C-.*

**COMP 3773 Advanced Object-Oriented Application Development with C++**
Advanced topics in object-oriented programming, analysis, and design using C++. Compile and run time binding, reflective and polymorphic programming, compile and run time type parametrization. Standard template library. Design patterns and frameworks in C++. *Prerequisite(s): COMP 2103, COMP 2113, and COMP 2663, each with a minimum grade of C-.*

**COMP 3923 Special Topics**
*Prerequisite(s): Permission of School of Computer Science.*

**COMP 407T Thesis 1**
*Antirequisite(s): COMP 4983.*

**COMP 408T Thesis 2**
*Prerequisite(s): COMP 407T. Antirequisite(s): COMP 4983.*

**COMP 4223 Advanced Computer Architecture**
New generation architectures and technologies, foundations of parallel computation, software for advanced architecture, parallel architectures. *Prerequisite(s): COMP 3703, COMP 3713.*

**COMP 4343 Computer Networks and Distributed Systems**
Design and implementation of computer networks and related systems, communications protocols and distributed systems. *Prerequisite(s): COMP 3343, COMP 3713, MATH 1413 or MATH 1313, each with a minimum grade of C-.*

**COMP 4443 Selected Topics in Computer and Network Security**
This course will cover selected topics such as: authentication applications, data integrity and privacy, anonymity, security infrastructures and intrusion prevention, network attacks, and wireless Networks and Security. *Prerequisite(s): COMP 3123 and COMP 4343, each with a minimum grade of C-. Corequisite or prerequisite: MATH 4333 or permission of the School of Computer Science.*

**COMP 4523 Special Topics in Environmental Informatics**
This course consists of intensive examination of selected topics in computer science and information technology for environmental science. *Prerequisite(s): Permission of the School of Computer Science.*

**COMP 4553 Game Development**
The game development life cycle, game design and programming, graphics engines and game engines, game tools. *Prerequisite(s): COMP 3553 and 3773, each with a minimum grade of C-.*

**COMP 4583 Mobile and Ubiquitous Computing**
This course covers the technologies used in mobile and ubiquitous computing and how to apply this knowledge to real-world applications. This course will provide specific skills needed for designing, developing and deploying mobile applications. *Prerequisite(s): COMP 3033, COMP 3343, COMP 3713, each with a minimum grade of C-.*

**COMP 4613 Artificial Intelligence 2**
Special topics in artificial intelligence. *Prerequisite(s): COMP 3613 with a minimum grade of C-, and permission of the School of Computer Science.*

**COMP 4923 Special Topics**
*Prerequisite(s): Permission of School of Computer Science.*

**COMP 4983 Capstone Project**
Experience in the design, development, implementation and documentation of a significant computer software or hardware system; or a thorough literature review and analysis of an aspect of computer science. Students in the BACS degree must complete an applied project in their area of defined option, second major, or minor. A final project report and a presentation to the School are required. *Prerequisite(s): 12h computer science at the 3000 or 4000-level, each with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of COMP 4983 or COMP 407T/COMP 408T.*

## Co-operative Education

**COOP 1902 Co-operative Education 1**
Students will engage in degree-relevant, hands-on learning for a minimum of 420 hours offering opportunities for application of classroom-based theory, reflection, collaboration with subject matter experts, as well as feedback on performance and a formal report or presentation. Provides in depth exposure to varied professional environments, learning of specialized knowledge/techniques/equipment, and first-hand insight into potential career paths. *Antirequisite(s): COOP 3706 and COOP 3806.*

**COOP 2902 Co-operative Education 2**
Students will engage in degree-relevant, hands-on learning for a minimum of 420 hours offering opportunities for application of classroom-based theory, reflection, collaboration with subject matter experts, as well as feedback on performance and a formal report or presentation. Provides in depth exposure to varied professional environments, learning of specialized knowledge/techniques/equipment, and first-hand insight into potential career paths. *Prerequisite(s): COOP 1902 (Passing grade). Antirequisite(s): COOP 3706 and COOP 3806.*

**COOP 3706 Co-op Internship (12-Month)**
Students will engage in degree-relevant, hands-on learning for 12 consecutive months with one employer offering opportunities for application of classroom-based theory, reflection, collaboration with subject matter experts, as well as feedback on performance and one formal report and one presentation. Provides in depth exposure to varied professional environments, learning of specialized knowledge/techniques/equipment, and first-hand insight into potential career paths. *Antirequisite(s): COOP 1902, COOP 2902, and COOP 3902, and COOP 3806.*

**COOP 3806 Co-op Internship (16-Month)**
Students will engage in degree-relevant, hands-on learning for 16 consecutive months with one employer offering opportunities for application of classroom-based theory, reflection, collaboration with subject matter experts, as well as feedback on performance and one formal report and one presentation. Provides in depth exposure to varied professional environments, learning of specialized knowledge/techniques/equipment, and first-hand insight into potential career paths. *Antirequisite(s): COOP 1902, COOP 2902, and COOP 3902, and COOP 3706.*

**COOP 3902 Co-operative Education 3**
Students will engage in degree-relevant, hands-on learning for a minimum of 420 hours offering opportunities for application of classroom-based theory, reflection, collaboration with subject matter experts, as well as feedback on performance and a formal report or presentation. Provides in depth exposure to varied professional environments, learning of specialized knowledge/techniques/equipment, and first-hand insight into potential career paths. *Prerequisite(s): COOP 1902, COOP 2902 (Passing grade). Antirequisite(s): COOP 3706 and COOP 3806.*

**COOP 4900 Co-operative Education 4**
Students will engage in degree-relevant, hands-on learning for a minimum of 420 hours offering opportunities for application of classroom-based theory, reflection, collaboration with subject matter experts, as well as feedback on performance and a formal report or presentation. Provides in depth exposure to varied professional environments, learning of specialized knowledge/techniques/equipment, and first-hand insight into potential career paths. *Prerequisite(s): COOP 3902 (Passing grade).*

## Economics

**ECON 1013 Microeconomic Principles**
An introduction to the following questions: How do markets work? When do markets successfully allocate resources? What causes markets to fail and what can be done about it? How do firms make production decisions? What results from firms having market power?

**ECON 1023 Macroeconomic Principles**
An introduction to the modern macroeconomic system. The measurement of incomes, jobs, and prices. An introduction to economic growth. The monetary system, the basics of banking, and interest rates. Exchange rate determination and related policy. Basic business cycle models and their implications for monetary and fiscal policy.

**ECON 2113 Intermediate Microeconomic Theory 1**
This course develops a theory of the market economy from the perspective of consumers and producers. Topics include utility

maximization, income and substitution effects, profit maximization, firm cost structures, competition structures, and taxation. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 2213 Intermediate Macroeconomic Theory 1**
Theories of economic growth including consideration of labour, capital, and technology. The empirics of economic growth. Neoclassical and New Keynesian business cycle models, their implications for fiscal and monetary policy, and the zero lower bound. The course focuses on rigorous model-building based on an understanding of how data disciplines economic models, and introduces students to numerical simulation. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 2413 Engineering Economics**
Topics of theoretical and applied economics of interest and use to engineers and professionals in related fields. Topics include market equilibria, interest rate determination, present and future values, investment criteria, budgeting and replacement analysis, depreciation, taxation, inflation, sensitivity and risk analyses, and multi-staged and multi-attribute decision making. Cross-coded as APSC 2413. *Prerequisite(s): MATH 1023, ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 2613 Empirical Analysis in Economics and Business**
This course aims to provide an introduction to empirical analysis in Economics and Business making extensive use of Microsoft Excel. Topics include both descriptive and inferential statistics, culminating in hypothesis testing and an introduction to regression analysis. *Antirequisite(s): Credit can be obtained for only one of MATH1213/MATH 1223, MATH 2213/MATH 2223, MATH 2233/MATH 2243, or ECON 2613.*

**ECON 2623 Introduction to Econometrics**
The objective of this course is to provide an introduction to econometric theory and illustrate practical implications of regression analysis in Economics and Business. The first half of the course provides an introduction to the classical linear regression model (CLRM). The second part of the course is concerned with identification and treatment of violations to the assumptions of the CLRM. *Prerequisite(s): ECON 2613. Antirequisite(s): Credit can be obtained for only one of MATH 3233 or ECON 2623.*

**ECON 2713 Economics of the Natural Environment**
An introductory analysis of pollution and the use of natural resources based on microeconomic tools, particularly the study of market failures with environmental consequences. This framework leads to evaluation of various government policies to address diverse problems related to the environment and the changing climate. *Prerequisite(s): ECON 1013.*

**ECON 2813 Macro Economic Policy Issues**
We investigate two questions: (1) Can and should policy increase economic growth? (2) Can and should policy decrease the variation in economic activity? Throughout, we will consider a variety of policy tools, and how the answer to one of the above questions influences answers to the other. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 2823 Micro Economic Policy Issues**
Canada's economy, like that of any other G8 country, is characterized by considerable government intervention. Using standard tools from microeconomic theory, this course examines the wisdom, and folly, of government policy. Topics include price and quantity controls, competition policy, public good provision, taxation and redistribution, and environmental protection. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 2883 Contemporary Economic Issues**
A collaborative seminar introducing modern research ideas and methods in economics. Several distinct topics will be covered by different instructors, drawing from faculty research interests and current economic issues, primarily in microeconomics. *Prerequisite(s): ECON 1013, ECON 1023, ECON 2613.*

**ECON 3113 Intermediate Microeconomic Theory 2**
This course extends the analysis in Intermediate Microeconomic Theory 1 to various market structures and imperfect competition. Topics include monopoly and price discrimination, oligopoly, introduction to game theory, externality and public goods. *Prerequisite(s): ECON 2113 and MATH 1613 or MATH 1013 with a minimum grade of C-.*

**ECON 3123 Intermediate Macroeconomic Theory 2**
Microfoundations of business cycle elements including consumption, investment, employment, life-cycles, equilibrium, and the Lucas Critique. Extension of business cycle models to the open economy and applications to fiscal and monetary policy. Macro-finance models incorporating banking, investment, and financial frictions, and macroprudential regulation. *Prerequisite(s): ECON 2213, ECON 2113, and MATH 1613 or MATH 1013 with a minimum grade of C-.*

**ECON 3133 Economics of Financial Markets**
The economic characteristics, function and performance of financial markets. Topics include the efficiency of financial markets, futures and options markets, pricing of financial assets, definition and measurement of risk, portfolio analysis, interest rate and yield curve analysis. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3143 Financial Institutions and Policy**
Deals with economic characteristics, functions and performance of financial institutions nationally and internationally. Topics include commercial and central banking in Canada, foreign banking systems and international monetary policy and exchange rate regimes. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3203 Economic History of Canada**
A consideration of significant economic events and circumstances since before Confederation that have shaped the Canadian economy. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3313 Labour Economics**
This course aims to make an introduction to modern labour economics. The main focus will be an analysis of the key aspects of labour supply and demand behavior, with an emphasis on major policy questions such as the impact of public policy on work incentives and retirement. The acquired tools are applied to topics such as wage determination, human capital, returns to education and immigration. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3323 Issues in Canadian Labour Markets**
This course deals with selected contemporary issues in Canadian labour markets. The first part of the course begins with the standard economics of labour supply and demand. The course also looks at wage structures, the causes and the consequences of unemployment, the presence and effects of labour unions, the increasing participation of women, and the debate over discrimination in labour markets. *Prerequisite(s): ECON 1013/1023 with a minimum grade of C-.*

**ECON 3363 Law and Economics**
This course examines three avenues of law – property, contracts, and crime & punishment – to characterise how economic principles have guided significant developments in law and how economic analysis can be used to assess, critique, and improve current law and public policy decision making*. Prerequisite(s): ECON 1013.*

**ECON 3413 Public Finance**
A study of public finance or the various types of taxes and government expenditures and their impacts on the Canadian economy, such as the effects of prices, production, and the distribution of income. *Prerequisite(s): ECON 1013/1023 with a minimum grade of C-.*

**ECON 3423 Federal-Provincial Fiscal Relations**
The economics of tax sharing, joint financing of established health and welfare programs, and other fiscal transfers between the various levels of government in Canada. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3433 Cost-Benefit Analysis**
The techniques and application of cost-benefit analysis to public policy and project evaluation. Topics include the welfare foundations of cost-benefit analysis, investment decision rules, the choice of a social discount rate, risk and uncertainty, shadow pricing of inputs and outputs, public sector pricing and assessment of the value of intangibles such as time, noise and life. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3513 Economics of Transportation**
This course applies concepts from microeconomics (including utility theory, supply and demand, pricing, public goods, and market failures) to the study of urban transportation issues. Examples of topics covered include traffic congestion, cost-benefit analysis and investment evaluation, and the regulation of transportation. *Prerequisite(s): ECON 1013 with a minimum grade of C-.*

**ECON 3523 Industrial Organization 1**
An introduction to industrial organization and Canadian industrial policy. Topics such as the determinants and measurement of industry structure lead to a review and development of the theories of monopoly and oligopoly. Canadian public policy (e.g., competition policy) is examined in this context. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3533 Economics and Personal Finance**
This course focuses on the economic environment in which personal financial decisions are made. It exposes students to modern economic literature and a broad range of topics within life-cycle, financial, family, housing, and computational economics. A substantive writing component forms part of the course. *Prerequisite(s): ECON 1013, ECON 1023, ECON 2613, and either MATH 1613 or MATH 1013.*

**ECON 3543 Health Economics**
An applied study of health economics through a microeconomic lens, focusing particularly on Canadian issues and policies, including the determinants of healthcare, the economics of insurance, the behaviour of healthcare providers and consumers, asymmetric information, and healthcare markets. *Prerequisite(s): ECON 1013.*

**ECON 3613 Mathematical Economics**
This course is concerned with the application of mathematical tools to economic theory. Incoming students are expected to be familiar with univariate calculus. Tools such as multivariate calculus, matrix algebra and linear programming are brought to bear on macroeconomic models and a variety of unconstrained and constrained microeconomic optimization problems. *Prerequisite(s): ECON 1013/ECON 1023, MATH 1613 or MATH 1013, each with a minimum grade of C-.*

**ECON 3623 Mathematical Economics 2**
This course is a continuation of ECON 3613. Additional mathematical techniques are applied to microeconomic theory in greater depth, including the treatment of time and uncertainty. Partial equilibrium analysis, and dynamic macroeconomic analysis is treated. *Prerequisite(s): ECON 3613.*

**ECON 3633 Financial Econometrics**
The objective of this course is to provide an introduction to the econometrics used in empirical finance. Topics will cover modern statistical and econometric techniques necessary for both professional and academic quantitative research in finance. Particular emphasis will be placed on measuring risk of holding and trading financial assets, models for risk management, estimation and inference using computer-based applications. *Prerequisite(s): ECON 2623 and ECON 3133.*

**ECON 3713 Environmental Economics**
Building on ECON 2713, this course further investigates the valuation of non-market goods, the normative content of discount rates, and recasts the analysis of externalities in a general equilibrium framework. *Prerequisite(s): ECON 2713.*

**ECON 3733 Economics of Recreation and Sport**
This course examines the role of economics in the consumption and provision of recreation and sport in today's society. Topics include demand estimation and forecasting, assessing the benefits and costs of recreation and sport events/facilities, pricing issues, and the role of government in the recreation and sport industries. *Prerequisite(s): ECON 1013 with a minimum grade of C-.*

**ECON 3743 Economics of Tourism**
A theoretical and empirical analysis of the tourism industry as it applies to consumers and providers at the community/regional/national and international levels. Topics include cost structures in the tourism industries and related pricing issues, demand analysis and market segmentation, economic and social impacts of tourism, the role of multinationals and government in the tourism industry. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3823 Urban Economics**
This course provides an introduction to urban economics. This class will use established economic tools/analysis to explain why cities exist, how /where they develop, and what forces underlie the distribution of economic activity. Also examined will be the determinants of land prices/rents, market failures related with land use and relevant public policy. The course will also look at urban issues such as congestion, poverty, and crime. These issues, as they relate to Canadian cities, will be the primary focus of this class. *Prerequisite(s): ECON 1013.*

**ECON 3833 Economics and Entrepreneurship**
This course explores entrepreneurship from the perspective of modern economic analysis. Economic profit and the return to entrepreneurship. The economics of risk and uncertainty. The economics of asymmetric information and information technology. Pricing and investment decisions. Public policy and entrepreneurship. Entrepreneurship and the knowledge economy. *Prerequisite(s): Permission of the instructor.*

**ECON 3883 Special Topics in Economics**
Special topics in economics to allow students to take advantage of their own particular interests and the interests of current and visiting faculty. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 3913 Managerial Economics**
An introduction to the economics of organizations and management, and an examination of the organizational and personnel problems firms face. Throughout consider the policy environment firms operate in, and how firms respond to changes in this environment. Topics include recruitment, remuneration, team production, and internal organization. While our perspective will be game-theoretic, it will emphasize intuition over formal results. *Prerequisite(s): ECON 1013, ECON 2623 (or equivalent) with a minimum grade of C-.*

**ECON 3923 International Trade Theory**
The course explores the theory and practice of international trade theory from a variety of perspectives. This course provides an introduction to the basis, consequences and policies of international trade and to the multilateral trading system and institutions. Policy discussions will include contemporary developments in international trade including the North American Trade Agreement, the World Trade Organization and Non-Government Organizations. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of ECON 3923 or ECON 4113.*

**ECON 3933 International Finance and Institutions**
International monetary economics including foreign exchange markets, adjustment mechanisms, speculations, capital flows and transfer problems, international liquidity, balance of payments and its interrelation with domestic policy, the I.M.F. and World Bank and international finance institutions. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of ECON 3933 or ECON 4123.*

**ECON 3943 Development Economics**
Theories of economic development with specific reference to certain areas and conditions: the analytics of economic growth; barriers, balanced versus unbalanced strategies, technology. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of ECON 3943 or ECON 4213.*

**ECON 4013 History of Economic Thought**
The course explores the ideas of the principal writers of the classical school of economic thought, particularly Smith, Malthus, Ricardo, Mill and Marx. Attention will also be given to the surrounding intellectual, political, and economic context within which these ideas were developed and the reasons why classical thought evolved into modern, neoclassical economics. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 4033 Advanced Microeconomic Theory**
Selected topics in consumer and producer theory at an advanced mathematical level. Topics will include utility maximization, the indirect utility function, the expenditure function, consumer choice and the Slutsky equation, demand, consumers' surplus, technology, profit maximization, the profit function, Hotelling's lemma, cost minimization, the cost function and Shephard's lemma, general equilibrium and welfare. *Prerequisite(s): ECON 3113, and one of ECON 3613 or MATH 1023.*

**ECON 4043 Advanced Macroeconomic Theory**
Topics in macro theory, policy and empirical research depending on interests of the instructor and students. Examples of topics are consumption, investment, the Keynesian-neoclassical synthesis and the crowding out controversy, inflation, trade-offs, expectations and incomes policies, policy problems of open economics. *Prerequisite(s): ECON 3123, and one of ECON 3623, MATH 1023.*

**ECON 407T Honours Thesis 1**
The first half of the honours experience during which students undertake a mentored research investigation or project. ECON 407T and ECON 408T are required of and only available to thesis-option honours students. Students wishing to engage in honours research should consult the department during their third year.

**ECON 408T Honours Thesis 2**
*Prerequisite(s): ECON 407T.*

**ECON 4523 Industrial Organization 2**
Advanced topics in industrial organization are examined. These include pricing strategies, strategic behaviour, game theory, advertising, informational asymmetries and disclosure laws. *Prerequisite(s): ECON 3113 or ECON 3523.*

**ECON 4613 Econometrics**
This course aims to provide an understanding of basic econometric techniques with emphasis on applications in empirical research. The first half of the course covers a comprehensive review of the classical regression model and the underlying assumptions. The second half of the course presents models that are frequently used in empirical research such as qualitative response regression models, instrumental variables and time-series analysis. *Prerequisite(s): ECON 2613 and ECON 2623.*

**ECON 4623 Advanced Topics in Econometrics**
Extends the methods of Econometrics 1. Topics covered include binary choice models, systems of equations, and dynamic econometric models. *Prerequisite(s): ECON 4613.*

**ECON 4813 Natural Resource Economics**
Building on ECON 2713, this course further investigates the use of renewable and non-renewable resources. We will consider optima harvest "rules", from Hotelling to Hartwick, and develop dynamic harvesting models to understand why such rules are optimal. *Prerequisite(s): ECON 2713.*

**ECON 4903 Honours Seminar**
This objective of this course is to provide a foundation for an honours thesis. The course will adopt a seminar format with scheduled lectures. Topics covered will include but not limited to the organization of honours thesis, identification and discussion of the research question, how to conduct a literature review, making effective use of the library resources, presentation of results, and applications to graduate schools. *Prerequisite(s): ECON 1013/ECON 1023 with a minimum grade of C-.*

**ECON 4913 Game Theory**
Games are played whenever people interact, wherever there are strategies to adopt and outcomes or prizes to win. This means games are played everywhere, from economics to evolutionary biology, from prison escapes to online poker, and from romantic liaisons to military standoffs. We develop the Nash equilibrium and several refinements. *Prerequisite(s): ECON 3113 with a minimum grade of C-.*

## Education

**EDUC 3203 Introduction to Education**
This course provides an introductory overview of the teaching profession for students beginning or considering a career in education. The course strives to help individuals better understand the purpose, structure and operation of public schools in Canada with a particular focus on the role of the professional educator. (Not for credit towards the Bachelor of Education program).

**EDUC 4003 Practicum 1**
The first designated block of supervised student teaching that involves observation, reflection, team teaching, and some introductory small group and full group instruction, under the supervision of a school-based associate teacher and a School of Education University advisor. Pre-service teachers begin to build a personal portfolio that reflects their beginning growth in professional practice.

**EDUC 40A3 Practicum 2**
The second block of supervised student teaching. Pre-service teachers continue to observe, reflect and develop professional practice. Under the supervision of a school-based associate teacher and a School of Education University advisor, pre-service teachers take on more responsibility in the classroom in terms of practicum. Pre-service teachers continue to develop a personal portfolio that reflects their beginning growth in professional practice.

**EDUC 40B3 Teaching Mathematics in Elementary School 2**
Fundamental issues in elementary mathematics education include the nature of mathematics and our purposes in teaching mathematics. Drawing on relevant documents and current research, this course provides pre-service teachers with opportunities to investigate and use instructional and assessment materials for elementary school mathematics. *Prerequisite(s): EDUC 4173 with a minimum grade of B- or permission of the instructor.*

**EDUC 40C3 Teaching Mathematics in Middle School**
In this course pre-service teachers investigate and develop instructional and assessment materials for middle school mathematics with an emphasis on connections and mathematics as problem solving using relevant documents and current research. Through developing and sharing materials with colleagues, pre-service teachers examine and engage with a wide range of topics in the middle school curriculum. *Prerequisite(s): EDUC 4173 or EDUC 4183 with a minimum grade of B- or permission of the instructor.*

**EDUC 40E3 Human Geography Secondary School 1**
Using relevant documents and current research, topics in teaching human geography will include cultural patterns and processes, population geography, urban geography, political geography, agricultural and rural land use and industrialization and economic development. A variety of teaching strategies will be aimed at infusing geography skills and pedagogy into social studies teaching and learning.

**EDUC 4053 Healthy Learning Environments**
Pre-service teachers will explore how to create equitable, safe, positive and diverse learning environments. Theory and practice research in recognizing and supporting wellbeing across stages of human development, mental health, and key educational transitions will be explored. Students will explore healthy relationships to learning and management within the classroom as well as the policies, resources, and partnerships across school communities.

**EDUC 4103 Strategies in Teaching a Second Language**
The major focus will be teaching French as a second language. Course topics will be investigated in terms of theoretical foundations and classroom application. This course is normally taught in French.

**EDUC 4113 Teaching Social Studies in Secondary School 1**
This course focuses on the principles and methods of teaching social studies in secondary school, with emphasis on the social studies knowledge, skills, and attributes that contribute to the development of engaged citizens. Topics include: inclusive social studies planning, community building, social studies assessment strategies, disciplinary thinking, critical literacy, inquiry and project-based teaching and learning approaches, citizenship, democracy and identity development.

**EDUC 4133 Teaching Elementary Language Arts 1**
This course centers on children's language and literacy learning processes, introducing current teaching methodologies and assessment approaches which support literacy development. Drawing on relevant curriculum documents and current research, we examine speaking and listening, reading and viewing, writing and other forms of representing as inter-related processes which support an integrated approach to literacy learning across the curriculum.

**EDUC 4143 Teaching Science in the Secondary School 1**
This course is designed as an introduction to constructivist secondary school science as it relates to relevant curriculum documents with due consideration of the diversity of students that populate our classrooms. Topics will include lesson and unit planning, assessment and technology integration. These will be considered using a critical lens of research-informed theory and practice within the context of "teacher as reflective practitioner."

**EDUC 4153 Teaching Science in the Elementary School**
This course is an introduction to science education at the elementary level. It will address supporting theory, current research and lesson planning surrounding constructivist modes of instruction. Individual components of a science lesson will be addressed. The integration of science with other subjects will be studied through examples that align with STSE, STEM and STEAM curricular initiatives.

**EDUC 4173 Teaching Mathematics in Elementary School 1**
This course addresses how elementary students become mathematically literate. The focus is on relevant documents and research-informed methods for teaching mathematics to elementary students. Pre-service teachers develop discovery activities and explore how elementary students think about and learn mathematics. Practices for teaching children to reason, to solve problems employing a variety of strategies, and to communicate mathematically are addressed.

**EDUC 4183 Teaching Mathematics in Secondary School 1**
This course introduces current methods for teaching secondary mathematics. Drawing on relevant documents and current research, pre-service teachers engage in discovery activities examining how secondary students think about, and build knowledge and skills in, mathematics. The overall objective is to learn how to help secondary students to grow in their mathematical literacy, and to fill gaps in knowledge and skills.

**EDUC 41A3 Energy, Power and Transportation Technology**
This course will provide an introduction to the philosophical and practical dimensions involved with teaching energy, power and transportation technology in Atlantic Canada schools. Topics will include learning theories in technology education, creativity and ingenuity in design and problem solving, introductory electronics, and renewable energy technologies. In addition, this course will

explore how advances in energy, power and transportation technologies connect to broader pedagogical dimensions of education for sustainability, community outreach and the development of a critical technological literacy.

**EDUC 41B3 Communications Technology**
This is a project-oriented content course where students are exposed to a range of communications technologies that are used and taught in the Nova Scotia public school program.

**EDUC 41C3 Production Technology**
This is a project-oriented content course where students are exposed to a range of production skills and technological processes. The course content is tailored to match those topics typically taught in the Nova Scotia public school program.

**EDUC 41D3 Teaching Biotechnology**
This course will allow students to work closely with the biotechnology curriculum that is currently emerging in the Nova Scotia public school program.

**EDUC 41F3 Sociological, Historical, Philosophical Foundations of Education**
Enacting culturally and socially responsive pedagogy is the responsibility of every teacher. Effective teachers work to understand diverse people, histories and cultures. Using theory from education's foundations disciplines, this course provides pre-service teachers with a set of lenses through which to understand and address endemic social inequality in schools and society.

**EDUC 41K3 African Nova Scotian Historical and Contemporary Perspectives**
This course examines historical and contemporary perspectives of African Nova Scotians and their communities through an equity and Africentric lens. Preservice and in-service teachers will critically examine the impact of systemic and institutionalized anti-Black racism on the lives and schooling experiences of African Nova Scotian learners. Students will explore African Nova Scotian contributions, knowledges, cultures, worldviews, languages, and spiritualities and how these ways of knowing, being and doing can transform curriculum and pedagogies towards equitable and inclusive schooling.

**EDUC 4203 Literacy Across the Curriculum**
This course will examine literacy across the curriculum by exploring the mutual supporting roles of reading and viewing, speaking and listening, and writing and representing as students learn within and across different subject areas and grade levels. Students in this course will be encouraged to develop a critical reflective approach regarding the notion of literacy and text.

**EDUC 4233 Teaching Elementary Language Arts 2**
This course further develops language and literacy learning methodologies in the context of digital, visual, and print literacies within a critical literacy framework. It examines how to adapt content, strategies, and assessment for literacy learners across social, cultural, and learning differences with particular attention to differentiation and culturally responsive pedagogy in provincial, national, and global educational contexts. *Prerequisite(s): EDUC 4133 or equivalent, with a minimum grade of B-.*

**EDUC 4243 Teaching Social Studies in the Elementary School**
This course focuses on the principles and methods of teaching social studies in elementary school, with emphasis on the social studies knowledge, skills, and attributes that contribute to the development of engaged citizens. Topics include: disciplinary thinking, treaty relationships, interdisciplinarity, inquiry and project-based teaching and learning approaches, citizenship, democracy and identity development, critical literacy, human rights and diverse perspectives.

**EDUC 4263 Curriculum Practices for Diverse Learners**
This course engages with relevant policies and curriculum documents as well as research informed instructional theories and practices related to diversity, equity and inclusion. Pre-service teachers will examine, design and develop inclusive practices to support diverse learners' progress and transitions through the education system.

**EDUC 42A3 Media and the Environment**
This course will examine the role traditional and emergent media play in constructing and transforming our cultural, political, scientific and personal perspectives and understanding of our environment. Drawing on contemporary critical themes of media theory and practice, the course will examine how media frames and discourses are created to enable particular cultural forms of political economy and power. *Prerequisite(s): ESST 1023 and ESST 2003 or permission of the instructor.*

**EDUC 42B3 Sustainable Technologies**
This course will examine the role of technology in the context of sustainability. It will critically explore from social, political and historical perspectives, how technological development has contributed both positively and negatively to the environmental crisis. Emphasis will be placed on how innovation with information, solar, wind, tidal and biomass technologies provides a path toward a more sustainable future. *Prerequisite(s): ESST 1023 and ESST 2003 or permission of the instructor.*

**EDUC 42D3 Principles and Practices 1 (Secondary)**
EDUC 42D3 is an introduction to teacher education. Pre-service teachers engage in reflective practice to consider their own identity, integrity, and professionalism as they explore the art and science of teaching. Topics include an introduction to curriculum frameworks, integration across subject areas, various forms of lesson planning, instructional methods and models, assessment principles and strategies, and tools for creating safe learning environments.

**EDUC 42E3 Principles and Practices 1 (Elementary)**
EDUC 42E3 is an introduction to teacher education. Pre-service teachers engage in reflective practice to consider their own identity, integrity, and professionalism as they explore the art and science of teaching. Topics include an introduction to curriculum frameworks, integration across subject areas, various forms of lesson planning, instructional methods and models, assessment principles and strategies, and tools for creating safe learning environments.

**EDUC 42F3 Topics in Education**
This course explores a specific topic related to education, the particular topic to be determined according to current concerns in the field of education as well as student needs and interests. The latter will be established through consultation with faculty.

**EDUC 42H3 Drama and Performative Inquiry**
Located within Arts scholarship, this course embraces curriculum theory and practice as applied and interwoven. Course emphasis includes: theatre competencies, drama as a vehicle for understanding cultural and global contexts and literacies through character, role, plot and narratives across time and curricular areas, with a dedication to equitable learning spaces.

**EDUC 42K3 Indigenous Education**
This course explores teachers' roles in addressing Reconciliation through meaningful opportunities to integrate Indigenous knowledge, cultures, and worldviews into elementary and secondary teaching in Nova Scotia. Students will explore historical and contemporary aspects of treaty education and Mi'kma'ki in order to consider more broadly Indigenous Peoples' experiences in Canada.

**EDUC 42M3 Principles and Practices 2 (Secondary)**
This course draws on pre-service teachers' practica in order to address a range of professional issues including educational law, professional roles, duties and responsibilities of teachers, ethics, professional relationships and communities of inquiry, the role of teachers' unions and associations, school-based technology, school/community partnerships including school transitions and communication with parents/guardians, and the hiring process including resume writing, interview preparation, and job search. *Prerequisite(s): EDUC 42D3 or equivalent.*

**EDUC 42N3 Principles and Practices 2 (Elementary)**
This course draws on pre-service teachers' practica in order to address a range of professional issues including educational law, professional roles, duties and responsibilities of teachers, ethics, professional relationships and communities of inquiry, the role of teachers' unions and associations, school-based technology, school/community partnerships including school transitions and communication with parents/guardians, and the hiring process including resume writing, interview preparation, and job search. *Prerequisite(s): EDUC 42E3 or equivalent.*

**EDUC 42P3 Teaching Computer Science 1**
This course introduces current methods for teaching computer science through the core competencies and multiple learning pathways emerging in secondary education. Drawing on relevant documents and current research, pre-service teachers explore the expanding cross-curricular relevance of computer science in a modern education system and the pedagogical approaches to promote computational thinking as a foundation for inquiry and innovation.

**EDUC 42R3 Teaching Computer Science 2**
This course explores computer science curriculum connections through engaging instructional and assessment strategies in the secondary classroom. Focusing on current research and practices, pre-service teachers will have the opportunity to apply computer science education principles in the design and implementation of innovative and inquiry-based classroom experiences with real-world applications. *Prerequisite(s): EDUC 42P3*

**EDUC 42T3 Classroom Management**
This course explores the development and maintenance of a safe, creative, ethical and inclusive learning centered environment which promotes engagement. Pre-service teachers will consider class participation, the critical role of the teacher in responding to students, researching theories, policies, programs and approaches and examining current literature, case studies and school experiences as they learn how theory and practice are interwoven.

**EDUC 42U3 Environmental Justice and Equity**
The primary objective of this course is to develop a broad understanding of environmental justice and equity issues as they relate to education. The goal is to support students in developing their own informed pedagogical understandings on these complex and multifaceted issues. The geographic scope of environmental justice issues will extend from the local, to Pan Canadian and Global environmental justice struggles. Coursework will encourage expression of independent, fact-informed and well-argued opinions, and ideas concerning the development of curricula that encourages problem solving and critical thinking.

**EDUC 4303 Teaching Creative Arts in Elementary School**
This course introduces pre-service teachers to the teaching and infusion of creative arts across the curriculum at the elementary school level. Emphasis will include textual, visual and performative arts. The purposes and powers of the creative arts will be explored.

**EDUC 4313 Teaching Physical Education and Healthy Living 1**
This course introduces current methods for teaching physical education at secondary levels within an inclusive school setting. Drawing on relevant documents and current research, preservice teachers explore the pedagogical approaches to promoting activity in a variety of settings (gymnasium, outdoors, regular classroom) with a view to promoting active and healthy lifestyles.

**EDUC 4333 Equity and Inclusive Schooling**
This course examines the foundations of social justice and equity and their relationship to the principles of inclusive schooling. Pre-service teachers will consider the systemic barriers that shape public education within a Canadian human rights framework and explore the first voice - lived experience of minoritized communities.

**EDUC 4353 Teaching English in Secondary School 1**
This course provides an approach to teaching English that emphasizes the relatedness of listening, speaking, reading, viewing and writing in curriculum and in language learning and development. The course stresses the practical application of literacy learning theories from current research and relevant curriculum documents. The teaching of literature and writing processes is examined from the perspective of assessing and supporting diverse learners.

**EDUC 4433 Assessment for Teaching and Learning**
This course introduces pre-service teachers to the principles of assessment, focusing on the creation, use, interpretation and analysis of multiple and appropriate assessment tools and measures, the alignment of assessment with instruction, and the use of assessment data, gathered from a range of sources, for a variety of purposes, including addressing achievement gaps.

**EDUC 4503 Digital Literacy and Curriculum**
This course explores critical digital literacies for the empowerment of effective teaching and learning practices within diverse classroom contexts. The complexity of technology integration will be examined from the perspective of overlaps with pedagogical and content knowledge in the context of teacher as reflective practitioner. Through the use of current digital tools and classroom strategies, students will explore concepts such as Blended Learning, Digital Citizenship, new literacies, Universal Design for Learning, design thinking in STEAM environments, assistive technology, digital divide, and digital citizenship.

**EDUC 4553 Teaching Creative Arts in Secondary School**
This course provides pre-service teachers with opportunities to explore and reflect on the purposes and powers of the creative arts, while practicing with colleagues how to teach the creative arts in secondary schools, including the infusion of creative arts across the curriculum. Emphasis will include textual, visual and performative arts.

**EDUC 4563 Educational Explorations**
This course provides an opportunity for the exploration of a variety of educational issues through participating in formats such as institutes, workshops, and mini-courses. Evidence of 3h course equivalency, program relevance, and appropriate academic standards are to be submitted for prior approval to the Director. Evaluation is on a Pass/Fail basis. *Available only to education students.*

**EDUC 4573 Teaching Strategies for Technology: Energy, Power and Transportation**
This course is a lab-based introduction to a variety of teaching methodologies applicable to the Energy, Power and Transportation strand of technology education in Atlantic Canada schools. Emphasis will be placed upon the development of technological competence, practical dimensions of teaching technological problem solving, the design of appropriate learning activities and the planning and maintenance of a safe and stimulating learning environment for all students.

**EDUC 4583 Teaching Strategies for Technology: Production**
This course will address teaching methodologies for production technology. Themes of study will include materials science, processing materials, manufacturing, prototyping, life cycle analysis (LCA) and design for the environment (DfE). A critical component of this course will be the impact of production technology on society and the environment.

**EDUC 4593 Teaching Strategies for Technology: Communication**
This course will address teaching methodologies for communications technology. Themes of study will include communication systems, graphic and design communications and electronic communications. A critical component of this course will be the impact of communications technology on society and the environment.

**EDUC 4613 Teaching Social Studies in Secondary School 2**
This course builds on the philosophical foundations of social studies education developed in EDUC 4113. It offers an opportunity for students to engage with current research to explore curriculum knowledge in depth, including but not limited to: building communities of inquiry, treaty education, reconciliation, social responsibility and community action, controversial issues, democratic participation, human rights and infusing diverse perspectives. *Prerequisite(s): EDUC 4113 with a minimum grade of B-.*

**EDUC 4633 Human Sexuality and Gender in Schooling**
This course focuses on human sexual development and identity with an emphasis on adolescent and preadolescent sexuality. The course is organized around five units: (1) sexuality as a discourse of desire; (2) sexuality as a discourse of respect for self and others; (3) sexuality as a discourse of diverse ways of being; (4) sexuality as a discourse of love; and (5) sexuality as a discourse on sexual representations in popular culture. Attention will be given to social constructions of gender, gendered relations, and masculinity and femininity, and the ways these are manifest in curriculum and school settings.

**EDUC 4643 Teaching Science in Secondary School 2**
This course builds upon the theoretical and philosophical foundations of EDUC 4143 focusing further on relevant curriculum documents and research-informed theory and practice in the delivery of a science education within an inclusive education framework. Central to this study is a critical review of societal influences on curriculum and what constitutes scientific literacy. Issues of the environment are considered from a perspective of the responsible local and global citizen. *Prerequisite(s): EDUC 4143 with a minimum grade of B-.*

**EDUC 4653 Music Education for the Elementary School**
This course will introduce a theoretical framework related to how children develop musically in elementary school. The practical implications of this theoretical model will be explored and related to the music curriculum of Nova Scotia.

**EDUC 4663 Music Education for the Secondary School 1**
This course focuses on the principles and practice of music education in junior and senior high school programs. Both traditional and contemporary theoretical frameworks and their practical applications will be introduced and examined critically.

**EDUC 4673 Teaching English as a Second Language**
This course introduces students to some of the major current teaching methods in English as a Second or Foreign Language. It is designed to help prepare teachers for teaching English to ESL speakers either in Canada or abroad. This course may be taken as part of the TESOL Program.

**EDUC 4683 Linguistics for Teachers**
This course introduces students to the fundamentals of linguistics: the sound system (phonetics and phonology), word system (morphology), syntax, grammar, discourse analysis, and sociolinguistics. Although it may be taken by all interested students, it is primarily designed to be taken with EDUC 4673 and EDUC 4863 of the Acadia TESOL program for those who wish to teach English as a second or foreign language.

**EDUC 4703 Teaching Physical Education and Healthy Living 2**
This advanced course will investigate how to design, deliver and assess an innovative and inclusive physical education program in junior, middle and high schools in the 21st century. Pre-service teachers will develop an understanding of research and practices examining how physical literacy and movement competency represents the foundation for lifelong participation and enjoyment in sport/recreation/active lifestyles. *Prerequisite(s): EDUC 4313 or KINE 3143 or equivalent.*

**EDUC 4753 Teaching English in Secondary School 2**
Drawing on principles introduced in EDUC 4353, this course offers an extended examination of how-social, cultural and learning differences affect English teaching and learning in secondary classrooms. Practical issues in the teaching and assessment of literature learning, language usage, and writing are explored from the perspective of cultural responsiveness and differentiation. *Prerequisite(s): EDUC 4353 or equivalent, with a minimum grade of B-.*

**EDUC 4763 Creative Integration of Curriculum in Elementary School**
This elective course surveys a range of approaches through which prescribed outcomes in Elementary Language Arts, Mathematics, Science and Social Studies curriculum can be integrated in classroom practice. While theories of curriculum integration form the foundation for the course, the emphasis is on the notion of creativity as a means to situate learning in meaningful contexts. This course is offered at both the undergraduate and graduate levels.

**EDUC 4773 Place and Outdoor-Based Teaching and Learning Methodologies**
This course explores how learning can move beyond traditional indoor classrooms and how local and natural places can be critical sites for teaching. Pre-service teachers will learn how to design and deliver experiential and embodied outdoor learning activities that are linked to the curriculum. Students will understand the environmental and social benefits of incorporating local people and places into teaching practices.

**EDUC 4783 Teaching Mathematics in Secondary School 2**
Fundamental issues in secondary mathematics education include the nature of mathematics and our purposes in teaching mathematics. Drawing on relevant documents and current research, this course provides pre-service teachers with opportunities to investigate and use instructional and assessment materials for high school mathematics. *Prerequisite(s): EDUC 4183 with a minimum grade of B-.*

**EDUC 4793 Curriculum Issues in French as Second Language (FSL)**
This course builds on the philosophical foundations of French as second language education developed in EDUC 4103. It offers an opportunity for students to examine carefully the specific curricula they will encounter as teachers in the secondary public school setting. *Prerequisite(s): FRAN 4403 or EDUC 4103 with minimum B- grade.*

**EDUC 4863 Acquisition of Language**
This course focuses on how language is acquired, and how different theories of language learning have shaped the way that teachers teach English as an additional language. There will be sociocultural, physiological, and psychological analysis of language acquisition. The course may be taken as part of the TESOL Program.

**EDUC 4893 Directed Readings in Education**
Designed to broaden the student's understanding of the field and to satisfy special interests. Students are expected to present a definite plan of study. *Prerequisite(s): EDUC 4923.*

**EDUC 4923 Practicum 3**
The third block of supervised student teaching. Working with a school-based associate teacher and a School of Education University advisor, pre-service teachers take on more responsibility in the classroom with increased independent practice in planning, classroom instruction and assessment. Pre-service teachers continue to develop a personal portfolio that reflects their beginning growth in professional practice.

**EDUC 4933 Practicum 4**
The final block of supervised student teaching. Working with a school-based associate teacher and a School of Education University advisor, pre-service teachers are expected to take on full responsibility in the classroom with independent practice in planning, classroom instruction and assessment. Pre-service teachers complete their professional growth portfolio and present it as a culmination of the four practica.

**EDUC 4963 Music Education in Secondary School 2**
This advanced course provides an overview of learning theories pertinent to music education. Students will learn about pedagogical strategies for the teaching of music literacy that will lead to a teaching model to empower musicianship and engagement in music. Students will become familiar with Nova Scotia music curricula content and outcomes. *Prerequisite(s): EDUC 4663.*

**EDUC 4993 Developmental Psychology for Teachers**
Human development is a process of change that extends across the lifespan. Examining development from a psychosocial and ecological perspective, pre-service teachers will develop an understanding of the interaction of individual student competencies with the demands and resources of their environments. This course will examine the integration of both stage and ecological theories for a comprehensive understanding of student development.

## English

**ENGL 1213 Composition 1**
In this course, students will read a variety of essays and articles to help them learn to write a unified and coherent academic essay. Emphasis is on formulating a clear thesis, demonstrating an awareness of purpose and audience, and developing a personal writing voice in expository essays. *Students cannot proceed to a Major in English if they have taken only English 1213 plus ENGL 1223. ENGL 1213 is not a prerequisite for English courses at the 2000 and 3000-levels.*

**ENGL 1223 Composition 2**
In this course, students build on the basic elements of writing covered in ENGL 1213, but the emphasis is on argumentation. Students in ENGL 1223 will read at least one literary text in addition to essays, and they will be taught the strategies of persuasive, effective writing, including those that pertain to the critical, literary essay. *Please note that ENGL 1223 is not a prerequisite for English courses at the 2000 and 3000-levels. Prerequisite(s): ENGL 1213.*

**ENGL 1313 Composition for Second Language Students 1**
This course is designed for students who do not speak English as a first language. The course will focus primarily on the development of writing skills. Special attention will be given to fundamentals of grammar, vocabulary building, sentence structure, analysis of texts, and the organization of written argument.

**ENGL 1323 Composition for Second Language Students 2**
This course is designed for students who do not speak English as a first language. The course will focus primarily on the development of writing skills. Special attention will be given to fundamentals of grammar, vocabulary building, sentence structure, analysis of texts and the organization of written argument, and an introduction to research and documentation techniques. *Prerequisite(s): ENGL 1313.*

**ENGL 1413 Writing and Reading Critically 1**
This course introduces students to fiction, drama, and poetry from a range of periods. Students will develop analytical skills and learn strategies for writing clearly and persuasively. *ENGL 1413 plus ENGL 1423 are acceptable for English Majors and together function as the foundational and introductory pre-requisite for most upper-level English classes. Students interested in English should take either ENGL 1413 plus ENGL 1423 or ENGL 1483-1493.*

**ENGL 1423 Writing and Reading Critically 2**
This course introduces students to fiction, drama, and poetry from a range of periods. Students will develop analytical skills and learn strategies for writing clearly and persuasively. *ENGL 1413 plus ENGL 1423 are acceptable for English Majors and together function as the foundational and introductory pre-requisite for most upper-level English classes. Students interested in English should take either ENGL 1413 plus ENGL 1423 or ENGL 1483-1493.*

**ENGL 1483 Writing and Reading Critically Part 1**
This course is the first of two consecutive, connected courses that add up to one full-year course. It introduces students to fiction, drama, and poetry from a range of periods. Students will develop analytical skills and learn strategies for writing clearly and persuasively. *ENGL 1483-1493 is acceptable for English Majors and functions as the foundational and introductory pre-requisite for most upper-level English classes. Students interested in English should take either ENGL 1483-1493 or ENGL 1413 plus ENGL 1423. Corequisite(s): Credit can be obtained only if students register in ENGL 1493 Part 2 during the same academic calendar year. Antirequisite(s): ENGL 1406 or ENGL 1413 and ENGL 1423.*

**ENGL 1493 Writing and Reading Critically Part 2**
This course is the second of two consecutive, connected courses that add up to one full-year course. It introduces students to fiction, drama, and poetry from a range of periods. Students will develop analytical skills and learn strategies for writing clearly and persuasively. *ENGL 1483-1493 is acceptable for English Majors and functions as the foundational and introductory pre-requisite for most upper-level English classes. Students interested in English should take either ENGL 1483-1493 or ENGL 1413 plus ENGL 1423. Corequisite(s): Credit can be obtained only if students register in ENGL 1483 Part 1 during the same academic calendar year. Antirequisite(s): ENGL 1406 or ENGL 1413 and ENGL 1423.*

**ENGL 1603 Critical Digital Literacy**
This introductory-level course will empower students with a greater awareness of the economic and political aspects of digital environments, interfaces, tools, and networks and the ways that using them influences and impacts our experiences and perceptions. Assignments will encourage a deeper critical understanding of the issues, ethics, and responsibilities related to our digital lives, identities, narratives, and communities. *This course does not count as the foundation English pre-requisites (ENGL 1483-1493 or ENGL 1413 plus ENGL 1423).*

**ENGL 2003 Creative Writing Workshop**
An exploration of literary expression in a variety of genres. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2013 Exploring Creative Writing: An Introduction**
An introduction to the fundamentals of creative writing including technique and process through writing, reading, lecture, discussion, and workshop participation. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2033 Print Culture & History of the Book**
Print Culture and the History of the Book introduces students to the codex form from pre-modern to contemporary times. Closer attention will be given to medieval manuscript books and their influence on early printed books, on the means of production from Gutenberg-era presses to print-on-demand resources, and on descriptive bibliography as a way of recording books through the ages. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2083 Strategies for Reading Literature Part 1**
This course is the first of two consecutive, connected courses that add up to one full-year course. It will bring English Majors together in (ideally) their second year to give them a common experience in exploring and discussing various critical strategies for reading literature. Amongst the theoretical approaches that may be introduced are feminism, historiography, psychoanalysis, and postcolonialism. The course is required of all English majors. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Corequisite(s): Credit can be obtained only if students register in and complete ENGL 2093 Part 2 during the same academic calendar year. Antirequisite(s): ENGL 2006.*

**ENGL 2093 Strategies for Reading Literature Part 2**
This course is the second of two consecutive, connected courses that add up to one full-year course. It will bring English Majors together in (ideally) their second year to give them a common experience in exploring and discussing various critical strategies for reading literature. Amongst the theoretical approaches that may be introduced are feminism, historiography, psychoanalysis, and postcolonialism. The course is required of all English majors. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Corequisite(s): Credit can be obtained only if students register in and complete ENGL 2083 Part 1 during the same academic calendar year. Antirequisite(s): ENGL 2006.*

**ENGL 2113 Heroes and Villains in the Pre-modern World**
A study of the epic-heroic tradition in ancient, classical, and medieval literature. Particular attention will be given to aspects of heroism, gender identity, and mythopoesis. May be taken for Classics credit. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Antirequisite(s): IDST 2433.*

**ENGL 2153 Theory and Practice of Editing**
This is a hands-on introduction to editorial theory and practice which offers a behind-the-scenes look at the evolution and dissemination of scholarly and creative texts, and teaches students practical skills associated with the editorial process, including electronic editing. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2163 Medieval Literature 1**
An exploration of the medieval origins and development of the Legend of King Arthur. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2173 Medieval Literature 2**
A study of Geoffrey Chaucer's Canterbury Tales. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2183 Shakespeare 1**
This course will involve the intensive study of selected plays by Shakespeare. Its main goal is to help students develop both a critical and a theatrical eye. Careful attention will be paid to the complexity of Shakespeare's language, as well as to the plays' roles as cultural artefacts both today and in the past. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for either ENGL 2223-2233 (combined), or for one or both ENGL 2183 and ENGL 2193.*

**ENGL 2193 Shakespeare 2**
This course will involve the intensive study of selected plays by Shakespeare. Its main goal is to help students develop both a critical and a theatrical eye. Careful attention will be paid to the complexity of Shakespeare's language, as well as to the plays' roles as cultural artefacts both today and in the past. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for either ENGL 2223-2233 (combined), or for one or both ENGL 2183 and ENGL 2193.*

**ENGL 2223 Shakespeare Part 1**
This course is the first of two consecutive courses that add up to one full-year course. It will involve the intensive study of selected plays by Shakespeare. Its main goal is to help students develop both a critical and a theatrical eye. Careful attention will be paid to the complexity of Shakespeare's language, as well as to the plays' roles as cultural artefacts both today and in the past. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423) with a minimum grade of C-. Corequisite(s): Credit can be obtained only if students register in ENGL 2233 Part 2 during the same academic calendar year. Antirequisite(s): Credit can be obtained for either ENGL 2223-2233 (combined), or for one or both ENGL 2183 and ENGL 2193.*

**ENGL 2233 Shakespeare Part 2**
This course is the second of two consecutive courses that add up to one full course. It will involve the intensive study of selected plays by Shakespeare. Its main goal is to help students develop both a critical and a theatrical eye. Careful attention will be paid to the complexity of Shakespeare's language, as well as to the plays' roles as cultural artefacts both today and in the past. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Corequisite(s): Credit can be obtained only if students register in ENGL 2223 Part 1 during the same academic calendar year. Antirequisite(s): Credit can be obtained for either ENGL 2223-2233 (combined), or for one or both ENGL 2183 and ENGL 2193.*

**ENGL 2273 Sixteenth-Century Literature**
Selected poetry and prose of the sixteenth century, with emphasis on the works of Sidney, Spenser, and the poetry of Shakespeare. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2283 Seventeenth-Century Studies**
A study of seventeenth century literature emphasizing poetry and prose by major authors (including Milton). *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2313 Advanced English Composition for International Students**
This course is offered to international students in their upper years to refresh the principles of academic writing. It will allow students to refine their abilities in writing and critical thinking by reviewing writing skills and extending these to include more analysis through advanced writing methods. *Prerequisite(s): ENGL 1323. Restricted to students whose first language is not English.*

**ENGL 2323 The Romantics Part 1**
This course is the first of two consecutive courses that add up to one full course. It focuses on the diverse literature of the British Romantic period (1785-1830), a period of social, political and artistic change and contradiction. Artists and writers combine nostalgia, self-aware immediacy and hopeful idealism into works that favour imagination, emotion and vision. Featured authors include William Blake, William Wordsworth, Mary Wollstonecraft, Lord Byron, John Keats, Mary Shelley and Jane Austen. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Corequisite(s): Credit can only be obtained if students register in and complete ENGL 2333 during the same academic calendar year. Antirequisite(s): Credit can only be obtained for either ENGL 2323 -2333 (combined), or for one or both of ENGL 2353 and ENGL 2363.*

**ENGL 2333 The Romantics Part 2**
This course is the second of two consecutive courses that add up to one full course. It focuses on the diverse literature of the British Romantic period (1785-1830), a period of social, political and artistic change and contradiction. Artists and writers combine nostalgia, self-aware immediacy and hopeful idealism into works that favour imagination, emotion and vision. Featured authors include William Blake, William Wordsworth, Mary Wollstonecraft, Lord Byron, John Keats, Mary Shelley and Jane Austen. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Corequisite(s): Credit can only be obtained if students register in ENGL 2323 during the same academic calendar year. Antirequisite(s): Credit can only be obtained for either ENGL 2323-2333 (combined), or for one or both of ENGL 2353 and ENGL 2363*

**ENGL 2353 The Romantic Imagination**
This course explores the ways that British Romantic Period authors turned to the imagination as a tool for revolutionary and counterrevolutionary innovations and perceptions. The influence and impact of this antidote to enlightenment reason will be surveyed through the works of William Blake, William Wordsworth, Samuel Taylor Coleridge, Percy Shelley, Mary Shelley, John Keats, Matthew Lewis, Lord Byron and others. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of ENGL 2386 or ENGL 2353-2363 (combined).*

**ENGL 2363 Romantic Women**
This course focuses on the ways that the revolutionary politics of the British Romantic Period (1785 – 1830) amplified and challenged the voices of its women writers. We will interrogate the idea of "Romanticism" and its construction of women through the works of Jane Austen, Charlotte Smith, Mary Robinson, Mary Wollstonecraft, Anna Laetitia Barbauld, Joanna Baillie, Letitia Elizabeth Landon, and others. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of ENGL 2386 or ENGL 2353-2363 (combined).*

**ENGL 2383 Restoration and Early Eighteenth Century**
This course will introduce students to British literature and culture of the period 1660 to 1730. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2393 Later Eighteenth-Century Literature**
This course will introduce students to British literature and culture of the period 1730 to 1800. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2413 Victorian Literature and Culture**
This course situates Victorian literature in its historical, social, and political contexts, introducing students to canonical and non-canonical works in order to understand the nineteenth-century issues with which writers were generally preoccupied. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of ENGL 2476 or ENGL 2413- 2423 (combined).*

**ENGL 2423 Victorian Art & Aesthetics**
This course examines the work of the Pre-Raphaelites, the writers of British Aestheticism, and the writers of late century Decadence of the Fin-de-Siècle. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Antirequisite(s): Credit can be obtained for only one of ENGL 2476 or ENGL 2413-2423 (combined).*

**ENGL 2473 Victorian Studies Part 1**
This course is the first of two consecutive combined courses that add up to one full course. Students read British fiction, poetry, and drama from 1837-1901 within cultural, historical, and political contexts. The aim of this course is to introduce students to canonical and non- canonical works, as well as to convey an understanding of the nineteenth-century issues with which writers were generally preoccupied. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Corequisite(s): Credit can only be obtained if students register in ENGL 2483 during the same academic calendar year. Antirequisite(s): Credit can be obtained for either ENGL 2473-2483, or for one or both of ENGL 2413 and ENGL 2423.*

**ENGL 2483 Victorian Studies Part 2**
This course is the second of two consecutive combined courses that add up to one full course. Students read British fiction, poetry, and drama from 1837-1901 within cultural, historical, and political contexts. The aim of this course is to introduce students to canonical and non- canonical works, as well as to convey an understanding of the nineteenth-century issues with which writers were generally preoccupied. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-. Corequisite(s): Credit can only be obtained if students register in ENGL 2473 during the same academic calendar year. Antirequisite(s): Credit can be obtained for either ENGL 2473-2483, or for one or both of ENGL 2413 and ENGL 2423.*

**ENGL 2563 Canadian Literature 1**
This course will provide an overview of significant developments in the history of Canadian literature in English up to World War Two, stressing the influence of Canada's colonial heritage on the shaping of the country's literature. The course will address the historical contexts of the works under study and will examine important themes, issues, and aesthetic considerations. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2573 Canadian Literature 2**
A survey of Canadian literature in English from World War Two to the present. The course will provide an overview of significant developments in English-Canadian literature as well as a more detailed exploration of particular writers, themes, issues and literary concerns, such as postcolonialism, multiculturalism, gender and postmodernism. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2683 American Literature 1**
This course examines American literature of various genres (captivity narratives, slave narratives, essays, journals, stories and poetry) from the letters of Christopher Columbus, through the novels and poetry of the American Renaissance, to the Civil War poetry of Walt Whitman. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2693 American Literature 2**
Students will study the development of American poetry and fiction (including the emergence of Realism and Naturalism) from the Civil War to the 1930s. Major writers to be studied may include Henry James, Mark Twain, Emily Dickinson, Willa Cather, Robert Frost, Sherwood Anderson, Ernest Hemingway, and Wallace Stevens. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2773 Eighteenth-Century Fiction**
This course will introduce students to tales and novels written in Britain from the 1680s to the 1790s. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2783 Nineteenth-Century Fiction**
A study of the forms and functions of nineteenth-century fiction. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2803 Introduction to Indigenous Literatures of Turtle Island**
This course will introduce students to the Indigenous Literatures of Turtle Island with a focus on Canadian writers combined with a few seminal works from the United States. Topics may include gender and sexuality, impacts of colonization, the land and the environment, identity, culture and spirituality, family and kinship. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 2903 Critical Play: Introduction to Video Game Studies**
This course will introduce students to the narrative, rhetorical, performative, algorithmic, experiential, representational, cultural, and social aspects of digital games. It will give them the tools necessary to critically engage with these complex experiences and to

understand their unique features, interactive potential, and social impact. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3053 Experimental Poetry**
Introduces students to the origins and developments of experimental poetry, beginning with the revolutionary movements of the early 20th century (dada, imagism, surrealism, etc.), followed by an exploration of movements throughout the 20th century to the present. Experimental movements examined might include Objectism, Black Mountain poetics, L=A=N=G=U=A=G=E Poetry, and Dub poetry. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3073 Theory**
An advanced course in influential twentieth-century and contemporary theories of literature and culture. These theories will be studied and discussed with reference to the history of theoretical thought and may include formalism, dialogism, psychoanalysis, structuralism, feminism, cultural studies, new historicism, poststructuralism, gender studies, postcolonialism, sexuality studies, and queer studies. *Prerequisite(s): ENGL 2083-2093 with a minimum grade of C-.*

**ENGL 3083 Advanced Creative Writing 1: Poetry**
An advanced course emphasizing craft, style and individual development in the writing of poetry. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 and permission of the Department.*

**ENGL 3093 Advanced Creative Writing 2: Fiction**
An advanced course emphasizing craft, style, and individual development in the writing of fiction. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 and permission of the Department.*

**ENGL 3103 Shakespeare and Medicine**
This course explores intersections between Shakespeare and the discourses and practices of medicine. We will examine such plays as *All's Well That Ends Well, King Lear,* and *The Winter's Tale*, reading their representations of the body alongside early modern accounts of anatomy, physiology, and psychology. Specific topics may include ability/disability, aging, disease, herbalism, mental health, morbidity, pharmacology, pregnancy/lactation, and sex/sexuality. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3283 Drama to 1600**
A study of English drama from the late Middle Ages to 1600, including the Mystery Cycles and morality plays. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3293 Renaissance Drama**
A study of English plays from the Renaissance with an emphasis on non-Shakespearean drama. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3483 Nineteenth-Century Poetry**
This course provides a study of nineteenth-century poetry and poetic theory, introducing students to several important genres in the long nineteenth-century: lyric forms, the sonnet, the verse novel, the dramatic poem and the epic. *Prerequisite(s): ENGL 1483/ENGL 1493 or ENGL 1413/ENGL 1423 with a minimum grade of C-.*

**ENGL 3503 Poetry of Atlantic Canada**
This course exposes students to a selection of works from the long and rich tradition of poetry in Atlantic Canada, from the Loyalist verse of colonial times to the poetry of the diverse and multicultural region of today. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3513 Fiction of Atlantic Canada**
From the early nineteenth-century sketches of Thomas McCulloch and Thomas Haliburton to the lyrical and comic contemporary novels of David Adams Richards, Lynn Coady and Wayne Johnston, the Atlantic Provinces have made a substantial contribution to Canadian fiction, and this course provides a historically and stylistically diverse sample of what Atlantic fiction writers have to offer. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3523 The Writer and Nature 1**
This course traces the development of Nature Writing in English to the end of the nineteenth century. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3533 The Writer and Nature 2**
An exploration of modern and postmodern colonial texts which have helped to shape an emerging ecological vision of nature. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3553 Modern American Poetry**
In this course, students examine trends in American poetry from the 1930s to the present. The course will focus on collections of poetry by such poets as Langston Hughes, Allen Ginsberg, Sylvia Plath, Anne Sexton, Adrienne Rich, and Sharon Olds. Attention will be given to the historical contexts and critical debates that inform the works under study. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3563 Modern American Novel**
This course offers a critical study of the American novel, in all its variety and diversity, from 1930 to the present. Writers to be studied may include Zora Neale Hurston, Carson McCullers, Richard Wright, Ralph Ellison, Jack Kerouac, and Truman Capote. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3573 Modern Canadian Poetry**
This course will look at modern Canadian poetry and poetics from the early 20th century to the present, emphasizing modernism and how modernist and post-modernist ideas and movements, internationally and nationally, have shaped Canadian poetry. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3613 The Canadian Novel After 1930**
This course will introduce readers to a selection of Canadian novels, written since 1930, in a diverse range of styles, from the allusive modernism of mid-century fiction to the postmodern and postcolonial fictions of today. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3623 Literary Animals**
This course will examine the roles that animals play in literature and introduce students to key concepts in the field of animal studies. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3653 Postcolonial Cultures**
This course will introduce students to the fields of postcolonial literature and scholarship through a focus on a range of literary texts, from novels and poetry to film and art alongside history, politics, and culture. Students will learn about colonization, decolonization, settler colonialism, race, nation, empire, and the diaspora. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3663 Postcolonial Literature 4: South Asian Literature**
This course introduces students to contemporary South Asian literature written in English. Focusing on literature from India and the subcontinent, the course encourages students to recognize how South Asian writers explore issues of political and cultural autonomy through literature. Students will study works from writers as diverse as R.K. Narayan, Salman Rushdie, Nissim Ezekiel, Arundhati Roy, and Jean Arasanayagam. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3673 Postcolonial Literature 1: African Literature**
Introduces students to contemporary African Literature focusing on how African writers use literature to counter imperial legacies of invasion, settlement, and cultural destruction. To develop their historical and cultural understanding of African peoples, students will apply postcolonial reading strategies to works of various genres, tackling issues such as race, gender, language and nationalism. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3683 Postcolonial Literature 2: Caribbean Literature**
Introduces students to Caribbean literature, focusing on how Caribbean literature emerges as a creative and self-affirming response to an imperial history of slavery and indentured labour. Students will apply postcolonial reading strategies to works of various genres, tackling issues such as race, gender, language, creolisation and hybridity. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3723 Fantasy**
The genre of fantasy, from its antecedents to the present and in a variety of forms such as novels, picture books, graphic novels, and short fiction, taking into consideration changes in the perceptions and the construction of childhood and gender roles. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3743 Tolkien: Author and Critic**
This course explores J.R.R. Tolkien's *The Lord of the Rings* in the context of Tolkien's career as a teacher and scholar of medieval language and literature. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3753 Studies in the Short Story**
This course will introduce students to the short story written in English. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3763 Studies in the Canadian Short Story**
The short story is considered a particular forte of Canadian writers, and this course will introduce students to a selection of Canada's finest and most engaging practitioners of the genre. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3773 Modern British Poetry**
A study of the evolution of modern and contemporary British poetry. Poetry will be studied in its historical, cultural, and linguistic contexts. Poems will be selected to represent historical developments such as modernism, feminism, and postcolonialism as well as cultural topics such as war, religion, love, and politics. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3793 Modern British Fiction**
A study of the evolution of modern and contemporary fiction written in the UK. Fiction will be studied in the context of the historical, political, and technological transformation of British culture with a focus on critical concepts such as race, gender, and language. Fiction will be selected to represent literary movements such as modernism, postmodernism, and postcolonialism. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3833 Writing by Women 1 – Finding A Voice**
The historical development, in English, of women's writing from the late eighteenth century to the 1920s. Texts will include American, British, and Canadian writers. Cultural and literary theory will be used to focus on the interrelationship of text/context, genre and gender, author(ity) and the relations of cultural production. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3843 Writing by Women 2 – Modern and Contemporary**
An examination of modern and post-modern texts in English that reflect the wide range and cultural diversity of women writing in the twentieth and twenty-first centuries. Through the study of women's fiction and poetry from around the world students will explore such subjects as feminist theory and ecocriticism, gender and ethnicity, revisionist mythmaking, and growing up female. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 14233 with a minimum grade of C-.*

**ENGL 3903 Canadian Children's Literature**
An exploration of Canadian culture and childhood as presented in Canadian children's literature over time and across regions, including selections of poetry, picture books, fantasy, historical fiction, and realist novels for younger and older readers, taking into consideration changes in the perceptions and the construction of childhood and gender roles. May be taken for Women's and Gender Studies credit. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3973 Children's Literature 1**
An introduction to the variety of periods and genres in children's literature ranging from the first Golden Age to the present with selections from younger and older readers, including poetry, picture books, fantasy historical fiction, and realist novels, taking into consideration changes in the perceptions and the construction of childhood and gender roles. May be taken for Women's and Gender Studies credit. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 3983 Children's Literature 2**
An introduction to the body of folk and fairy tales that are the foundation for much of children's literature, covering their development from oral into written and illustrated versions, exploring a variety of the adaptations and reworkings over their history to the present day, and taking into consideration changes in the perceptions and the construction of childhood and gender roles. May be taken for Women's and Gender Studies credit. *Prerequisite(s): ENGL 1483-1493 or ENGL 1413 plus ENGL 1423 with a minimum grade of C-.*

**ENGL 4060 Introduction to Scholarly Methods (Non-Credit)**
This is a research and bibliographical course required of all Honours students.

**ENGL 407T Honours Thesis 1**
This is the first half of the traditional two-semester English Honours Thesis; it must be taken together with ENGL 408T. Please consult the Department website for a list of courses available in a given year. http://english.acadiau.ca.

**ENGL 408T Honours Thesis 2**
This is the second half of the traditional two-semester English Honours Thesis; it must be taken together with ENGL 407T. Please consult the Department website for a list of courses available in a given year. http://english.acadiau.ca. *Prerequisite(s): ENGL 407T.*

**4000-level ENGL Seminar Courses**
In these courses a limited field is chosen for intensive study. 4000-level seminars are restricted to third- and fourth-year Majors and Honours students (Minors by permission).

**ENGL 4013 Studies in Old English**

**ENGL 4033 Studies in Medieval Literature**

**ENGL 4053 Studies in Shakespeare**

**ENGL 4073 Studies in Sixteenth Century**

**ENGL 4113 Studies in Seventeenth Century**

**ENGL 4133 Studies in Eighteenth Century**

**ENGL 4153 Studies in Romantic Literature**

**ENGL 4173 Studies in Nineteenth Century**

**ENGL 4213 Studies in Twentieth Century**

**ENGL 4233 Studies in American Literature**

**ENGL 4253 Studies in Canadian Literature**

**ENGL 4273 Studies in Postcolonial Literature**

**ENGL 4313/23 Special Topics 1 and 2**

## Environmental Science

**ENVS 1013 Introduction to Environmental Science 1**
This course introduces students to the interdisciplinary nature of environmental science and the skills necessary for success in the discipline. It integrates fundamental science concepts from a number of disciplines (e.g., earth science, chemistry, biology, atmospheric science) and examines current environmental issues (e.g., global warming, acidification, deforestation, contaminants) within a multidisciplinary scientific context. Restricted to ENVS, ENGO, and ESST majors. *Antirequisite(s): ENVS 1643.*

**ENVS 1023 Introduction to Environmental Science 2**
This course is a continuation of the introduction to environmental science presented in ENVS 1013. Students approach issues of current environmental concern and develop interdisciplinary strategies for study and resolution. In addition, the overarching themes of environmental ethics, risk management and environmental policy are investigated. *Prerequisite(s): ENVS 1013 or permission of the instructor.*

**ENVS 2523 Field Course: Environmental Science**
Field techniques in environmental science, data analysis, and communication skills. Interdisciplinary approaches to field work and environmental analysis are incorporated into all exercises and discussions. Specific skills include geological mapping, field sampling, quality assurance/quality control, water quality measurement, and development of final report. (10-day course at the end of winter term). *Prerequisite(s): Minimum second-year standing in Environmental Science, ENVS 1013; GEOL 1023.*

**ENVS 3113 Legal Issues in Environmental Science**
A course designed to explore the constitutional, legislative and regulatory context of environmental law from a science perspective. A comparison and contrast of international environmental law responses for specific issues will be conducted in relation to Canada's treaty obligations and the common law system. *Prerequisite(s): 6h science and third-year standing.*

**ENVS 3423 Environmental Impact Assessment**
An interdisciplinary approach to the principles, practices, and methods involved in environmental impact assessments. Impacts covered include socio-economic, soils and geology, ecology, air, water, climate, and noise. *Prerequisite(s): Third-year standing in ENVS, ENGO, GEOL or permission of the instructor.*

**ENVS 3503 Borders, Scale and the Environment**
This course draws on interdisciplinary geographic perspectives to explore the spatial dimensions of environmental decision-making. It provides students with the tools to a) think critically about interactions between social and biophysical systems, and b) understand critical perspectives on borders and scale. Topics include state/nature relations, ecosystem management, local/global interactions, transboundary resource governance, and the politics of protected areas. *Prerequisite(s): Open to all ESST and ENVS majors who have completed 54h. Antirequisite(s): Credit can be obtained for only one of ENVS 3503 or ESST 3503.*

**ENVS 3513 Climate Change for Environmental Practitioners**
A broad-ranging study of the causes and effects of changing climate incorporating the physical basis, historical record and anticipated future impact of the changing atmosphere. Investigation of the current public perception of global warming and its effects. Examination of the political, economic, and cultural frameworks within which climate-changing human activity, mitigation, and adaptation take place. *Prerequisite(s): 54h university credits.*

**ENVS 4013 Environmental Science Project**
An independent study course in which students conduct literature, laboratory or field investigations on some particular issue in Environmental Science. The work must be sponsored and supervised by a member of the department. Students participate in planning the experiments and developing suitable procedures and techniques. *Prerequisite(s): Permission of the Department.*

**ENVS 4023 Special Topics in Environmental Science**
Selected current topics on environmental issues. *Prerequisite(s): Third-year standing in environmental science or permission of the Department.*

**ENVS 407T Honours Thesis 1**
This course requires the student to propose and carry out an original study and submit and defend a thesis. As a component of an interdisciplinary degree, the thesis should reflect an interdisciplinary approach to the issue under study. Prior to registering in ENVS 407T/ENVS 408T, students should normally have completed a thesis proposal and successfully established their ability to complete interdisciplinary work. *Prerequisite(s): Completion of the first three years (90h) of the BScH ENVS program; minimum CGPA of 3.00.*

**ENVS 408T Honours Thesis 2**
This course requires the student to propose and carry out an original study and submit and defend a thesis. As a component of an interdisciplinary degree, the thesis should reflect an interdisciplinary approach to the issue under study. Prior to registering in ENVS

407T/ENVS 408T, students should normally have completed a thesis proposal and successfully established their ability to complete interdisciplinary work. *Prerequisite(s): ENVS 407T, completion of the first three years (90h) of the BScH ENVS program; minimum CGPA of 3.00.*

**ENVS 4423 Communication and Critical Analysis in Environmental Science**
Communication skills in environmental science are honed through written, oral, debate, and group negotiation assignments. Multidisciplinary topics in environmental science are critically analysed through these exercises. Learning objectives include the enhancement of oral and written communications, critical analysis, project management, and negotiation skills. The importance of these skills to employment and professionalism in communications is emphasized through class assignments. *Prerequisite(s): Third or fourth-year standing in ENVS or ENGO program.*

**ENVS 4613 Contaminants in the Environment**
This course will examine the historical release, fate, and risk assessment of chemicals in ecosystems. Lectures will cover: (i) the major classes of chemical contaminants; (ii) factors affecting contaminant fate in ecosystems (ii) methods of ecological risk assessment for contaminants (toxicity, persistence, bioaccumulation, and long-range transport). Laboratory exercises will explore methods of assessing contaminant fate. *Prerequisite(s): CHEM 1023 or CHEM 1123.*

## Environmental and Sustainability Studies

**ESST 1003 Sustainability Concepts and Systems**
This course introduces the current state of our world with respect to environmental and sustainability issues, including core sustainability and ecological concepts, theory and analytical tools. It will use experiential and problem-based learning to investigate current issues. Open to ESST Majors only. *Corequisite(s): ESST 1000L, CODE 1023.*

**ESST 1023 Perspectives on Environmental Philosophy, Thought and Practice**
This course looks at the history of environmentalism and conceptualizations of sustainability from a range of cultural and disciplinary perspectives. Note: Only open to first- and second-year standing students.

**ESST 2003 Applied Leadership in Sustainability**
Fundamental principles and tools for leadership development will be explored in the context of moving societies and communities toward sustainability. Through case studies, field experiences, and other experiential learning opportunities, students will explore the various dimensions of leadership including group dynamics, and its role in support of sustainable community development. *Prerequisite(s): ESST 1023 or permission of the instructor. Antirequisite(s): Credit can be obtained for only one of ESST 2003 or CODE 1013.*

**ESST 2013 Environmental Justice and Equity**
Environmental problems do not affect all people equally, nor do the same solutions work for all groups. Using an intersectional feminist perspective, this course examines how gender, race, class, colonialism, and geography position people unevenly in relation to environmental benefits (e.g., natural resources, food) and harms (e.g., contamination, disasters), and explores examples of communities resisting injustice and building alternative futures. *Prerequisite(s): Second-year standing (i.e., >24h completed). Antirequisite(s): Credit can be obtained for only one of ESST 2013 or WGST 2013.*

**ESST 2023 Land-based Learning & Ecological Resilience Practices**
This course uses an experiential approach to providing practices, skills, tools, and applied frameworks for land-based learning, cultivating resilience, and building capacity for joy, connection and rest while working for transformative change. It aims to better resource students doing sustainability work, acknowledging that challenging emotions and queries can arise in learning about the current state of the environment and society. *Prerequisite(s): ESST 1003.*

**ESST 3003 Investigating Sustainability Issues: Research Methods**
An applied and transdisciplinary research course focusing on information needs that inform and influence decision-making and practice in the environmental and sustainability fields. Students engage with communities or organizations to identify information needs, select appropriate methodology, collect and interpret data, and develop suitable research reports. *Prerequisite(s): ESST 1003 and ESST 2003 or permission of the instructor.*

**ESST 3503 Borders, Scale and the Environment**
This course draws on interdisciplinary geographic perspectives to explore the spatial dimensions of environmental decision-making. It provides students with the tools to a) think critically about interactions between social and biophysical systems, and b) understand critical perspectives on borders and scale. Topics include state/nature relations, ecosystem management, local/global interactions, transboundary resource governance, and the politics of protected areas. *Prerequisite(s): Open to all ESST and ENVS majors who have completed 54h.*

**ESST 3513: Media and the Environment**
This course will examine the role traditional and emergent media play in constructing and transforming our cultural, political, scientific and personal perspectives and understanding of our environment. Drawing on contemporary critical themes of media theory and practice, the course will examine how media frames and discourses are created to enable particular cultural forms of political economy and power. *Prerequisite(s): ESST 1023, ESST 2003 or permission of the instructor.*

**ESST 3523 Sustainable Technologies**
This course will examine the role of technology in the context of sustainability. It will critically explore from social, political, and historical

perspectives how technological development has contributed both positively and negatively to the environmental crisis. Emphasis will be placed on how innovation with information, solar, wind, tidal and biomass technologies provide a path toward a more sustainable future. *Prerequisite(s): ESST 1023, ESST 2003 or permission of the instructor.*

**ESST 3533 Political Ecology of the Maritimes**
This course explores the connection between environmental processes, economies, and social power relations through a local focus on the Maritime region. Students will read political and ecological theory, explore historical and contemporary examples from the Maritime context, and apply theoretical lessons through experimental assignments. *Prerequisite(s): ESST 2013; third-year standing (55h or more completed).*

**ESST 3603 Sustainable Food Systems**
This course uses an experiential approach to understanding sustainable food systems theory and practice. Using readings, critical discussions, project work, and engagement with community organizations, students will explore concepts and applications of food-citizenship, -sovereignty, -security, -policy, and sustainability. Students will learn foundational food skills, broadening their capacity as growers and eaters through hands-on activities and field trips. *Prerequisite(s): Third-year standing in CODE or ESST or permission of department. Antirequisite(s): CODE 3603.*

**ESST 3993 Special Topics**
An examination of individual theoretical or practical elements in the field of Environmental and Sustainability Studies. *Prerequisite(s): Permission of the instructor.*

**ESST 4003 Environmental and Sustainability Studies Capstone**
This capstone seminar course will integrate key concepts with analytical and/or applied skills in Environmental and Sustainability Studies, as these relate to organizations, communities, societies, and worldviews. *Prerequisite(s): ESST 3003 or permission of the instructor. Corequisite(s): ESST 4000L.*

**ESST 407T Honours Thesis 1**
This course requires the student to propose and carry out a research study under the supervision of an approved supervisor and submit a thesis in accordance with the Program Guidelines of the student's degree discipline and in a format approved by the Honours Committee of Senate.

**ESST 408T Honours Thesis 2**
This course requires the student to propose and carry out a research study under the supervision of an approved supervisor and submit a thesis in accordance with the Program Guidelines of the student's degree discipline and in a format approved by the Honours Committee of Senate. *Prerequisite(s): ESST 407T.*

**ESST 4963 Directed Study**
This course is a directed application or theoretical analysis of current knowledge in a selected topic in ESST. A major paper is prepared under the supervision of the faculty member teaching the course. *Prerequisite(s): Permission of the instructor.*

## French

- All students taking an initial course in French are expected to take a placement test, either before the start of classes or during the first week of the term. This self-administered test can be accessed from the French section webpage.
- Students who have taken NS French 11 or French 12 (or a similar level from another province or country) will normally register in FRAN 1213/1223.
- Two courses (e.g., 1213, 1223) may not be taken simultaneously, nor may a student who has completed a given language course subsequently enrol for credit at a lower level.
- The department reserves the right to place students at the level of study appropriate to their linguistic abilities provided the courses are not taken simultaneously with pre-requisites.
- Unless otherwise mentioned, all courses are taught entirely in French. Many courses at the 3000- and 4000-level will be offered on a rotating basis. À compter de la 2è année, les cours se donnent presque entièrement en français.

The prerequisites for 3000/4000 level advanced language courses are FRAN 2013/FRAN 2023.

The prerequisites for 3000/4000 level literature courses are FRAN 2113/FRAN 2123.

**FRAN 1013 Beginning French 1**
This course is intended for students whose first language is neither English nor French and whose second language is not French. All other students must obtain permission from the Department in order to register. This course introduces basic grammar and vocabulary. Emphasis is placed on written and oral communication. Students who have completed FRAN 1013 and 1023 may continue in FRAN 1113 and 1123.

**FRAN 1023 Beginning French 2**
This course is intended for students whose first language is neither English nor French and whose second language is not French. All other students must obtain permission from the Department in order to register. This course introduces basic grammar and vocabulary. Emphasis is placed on written and oral communication. Students who have completed FRAN 1013 and 1023 may continue in FRAN 1113 and 1123. *Prerequisite(s): FRAN 1013. Note: Students who enrol in FRAN 1023 may not take simultaneously or subsequently*

*FRAN 1013.*

**FRAN 1113 Basic French 1**
FRAN 1113 introduces basic French grammar and communication. It is intended for students who are false beginners, students who studied Core French for several years, or students who studied French years ago, but who have not proceeded beyond the level of Grade 9/10 Core French. Students with more than Grade 9/10 Core French cannot register in this class without permission. *Prerequisite(s): Placement test or permission. Note: Students who enrol in FRAN 1113 may not enrol simultaneously or subsequently in FRAN 1013 or FRAN 1023.*

**FRAN 1123 Basic French 2**
FRAN 1123 is a continuation of the introduction to basic French grammar and communication begun in FRAN 1113. It is intended for students who are false beginners, students who have studied Core French for several years, or students who studied French years ago, but who have not proceeded beyond the level of Grade 9 or 10 Core French. *Prerequisite(s): FRAN 1113 or placement test or permission. Note: Students who enrol in FRAN 1123 may not take simultaneously or subsequently FRAN 1113, FRAN 1013, or FRAN 1023.*

**FRAN 1213 Intermediate French for Non-Immersion Students 1**
FRAN 1213 is a review of intermediate French grammar. While effective communication is stressed, students will be assessed primarily on their written expression. It is recommended that it be taken at the same time as FRAN 2153. *Prerequisite(s): Placement test or permission. Antirequisite(s): FRAN 1613, FRAN 1623. Note: Students who enrol in FRAN 1213 may not enrol simultaneously or subsequently in FRAN 1013, FRAN 1023, FRAN 1113, or FRAN 1123.*

**FRAN 1223 Intermediate French for Non- Immersion Students 2**
FRAN 1223 is a continuation of the review of intermediate French grammar begun in FRAN 1213. While effective communication is stressed, students will be assessed primarily on their written expression. It is recommended that it be taken at the same time as FRAN 2163. *Prerequisite(s): FRAN 1213. Antirequisite(s): FRAN 1613, FRAN 1623. Note: Students who enrol in FRAN 1223 may not take simultaneously or subsequently FRAN 1213, FRAN 1113, FRAN 1123, FRAN 1013, or FRAN 1023.*

**FRAN 1613 Intermediate French for Immersion Students 1**
FRAN 1613 is a review of intermediate French grammar. It is designed to enable Immersion students to build on their strengths while becoming aware of and remedying ingrained errors. Selected texts will be analyzed in order to apply the grammatical structures studied and to enrich vocabulary. It is recommended that it be taken at the same time as FRAN 2153. *Prerequisite(s): Placement test or permission. Antirequisite(s): FRAN 1213, 1223. Note: Students who enrol in FRAN 1613 may not enrol simultaneously or subsequently in FRAN 1013, FRAN 1023, FRAN 1113, or FRAN 1123.*

**FRAN 1623 Intermediate French for Immersion Students 2**
FRAN 1623 is a continuation of the review of intermediate French grammar begun in FRAN 1613. The purpose of the course is to enable Immersion students to build on their strengths while becoming aware of and remedying ingrained errors. Selected texts will be analyzed to apply the grammatical structures and to enrich vocabulary. It is recommended that it be taken at the same time as FRAN 2163. *Prerequisite(s): FRAN 1613 or placement test or permission. Antirequisite(s): FRAN 1213, FRAN 1223. Note: Students who enrol in FRAN 1623 may not take simultaneously or subsequently FRAN 1613, FRAN 1113, FRAN 1123, FRAN 1013, or FRAN 1023.*

**FRAN 2003 Français, monde des affaires, et francophonie**
Exploration du français des affaires et de l'importance économique et commerciale des régions de langue française dans le monde contemporain. Ce cours allie l'apprentissage du français spécialisé pour le milieu des affaires (commerce, finance, fiscalité, administration) à une découverte interactive de la francophonie en Europe, en Amérique du Nord et en Afrique. Cours recommandé particulièrement pour les étudiants en administration et en commerce, ou pour les futurs entrepreneurs indépendants dans le contexte canadien. *Préalable normal: FRAN 1223, FRAN 1623 ou un équivalent. Veuillez noter: Les étudiant(e)s qui suivent FRAN 2003 ne peuvent pas s'inscrire simultanément or subséquemment dans FRAN 1113, 1123. 1013 ou 1023.*

**FRAN 2013 Français avancé, niveau 1**
Étude systématique de la syntaxe du français écrit, lecture et analyse de textes, et une initiation à la traduction de l'anglais au français qui permettront à l'étudiant de mieux maîtriser des outils de communication pouvant se révéler utiles dans de nombreuses circonstances de la vie professionnelle. *Préalable normal: FRAN 1223 ou FRAN 1623, de préférence avec une moyenne minimale de B, ou test de placement ou permission. Veuillez noter que les étudiants qui s'inscrivent dans FRAN 2013 ne peuvent pas s'inscrire simultanément or subséquemment dans FRAN 1613,1623,1213,1223, 1113,1123,1013 ou 1023.*

**FRAN 2023 Français avancé, niveau 2**
Étude systématique de la syntaxe du français écrit, lecture et analyse de textes, et une initiation à la traduction de l'anglais au français qui permettront à l'étudiant de mieux maîtriser des outils de communication pouvant se révéler utiles dans de nombreuses circonstances de la vie professionnelle. *Préalable normal: FRAN 2013 ou test de placement ou permission. Veuillez noter que les* étudiants qui s'incrivent dans FRAN 2023 ne peuvent pas suivre simultanément ou ultérieurement FRAN 1613/1623, FRAN 1213/1223, FRAN 1113/1123, FRAN 1013/1023, FRAN 2013.

**FRAN 2033 Le Français de la Santé**
Ce cours s'addresse aux professionnels futurs ou actuels dans le domaine de la santé qui désirent améliorer leurs compétences orales et interpersonnelles et développer leur vocabulaire médical. *Préalable normal: FRAN 1223, FRAN 1623 ou équivalent avec une note minimale de B-. Veuillez noter que les* étudiants qui s'incrivent dans FRAN 2033 ne peuvent pas s'inscrire simultanément ou ultérieurement dans FRAN 1613/1623, FRAN 1213/1223, FRAN 1113/1123, FRAN 1013/1023.

**FRAN 2113 Panorama de la littérature française 1: des origines à 1800**
À travers les textes littéraires, c'est l'évolution de la culture et de la société qui devient évidente. Lire, c'est aussi améliorer sa compréhension de la richesse et de la diversité linguistique des époques passées. Un choix de textes permettra de se familiariser avec l'évolution de la France entre les premiers textes en français et l'époque de la Révolution de 1789. *Veuillez noter que les* étudiants qui s'incrivent dans FRAN 2113 ne peuvent pas s'inscrire simultanément ou ultérieurement dans FRAN 1613/1623, FRAN 1213/1223, FRAN 1113/1123, FRAN 1013/1023.

**FRAN 2123 Panorama de la littérature française 2: des origines à nos jours**
Au 19ème et au 20ème siècles, la littérature française joue un rôle important dans l'ensemble de la culture mondiale, par son prestige, son originalité et son influence. Un choix de textes majeurs permettra de comprendre l'évolution des différents genres littéraires du premier romantisme jusqu'à l'ère de la déconstruction et de la littérature commerciale de masse. *Préalable normal: FRAN 2113. Veuillez noter que les* étudiants qui s'incrivent dans FRAN 2123 ne peuvent pas s'inscrire simultanément ou ultérieurement dans FRAN 1613/1623, FRAN 1213/1223, FRAN 1113/1123, FRAN 1013/1023.

**FRAN 2133 Post-Colonial French Discourse**
This course introduces ideas and perspectives from leading French authors of the twentieth century. From structuralism to semiotics, authors from the French left advocated for a new, universal social discourse. Students will have the opportunity to analyze works from their original French, including Sartrian, Foucauldian, and Fanonian theories against social inequalities and prejudices. This course will be taught in French. *Prerequisite(s): 6h of 1000-level FRAN courses and 6h of 1000-level SOCI courses. Antirequisite(s): Credit can be obtained for only one of FRAN 2133 and SOCI 2133.*

**FRAN 2153 Compréhension et expression orales, niveau 1**
Apprentissage de stratégies de communication et de structures langagières qui permettront à l'étudiant d'être à l'aise dans des situations de communication courantes. Jeux, présentations orales, discussions, débats sur des sujets variés seront utilisés avec des documents authentiques, articles de magazine, émissions de radio et de télévision, films et chansons. Il est recommandé que ce cours soit suivi en combinaison avec FRAN 1213 ou FRAN 1613. Les étudiants qui auront déjà obtenu un crédit en FRAN 2013/FRAN 2023 ne seront pas admis à ce cours. Les étudiants qui s'inscrivent en FRAN 2153 ne peuvent pas s'inscrire simultanément ou ultérieurement en FRAN 1113, FRAN 1123, FRAN 1013, ou FRAN 1023.

**FRAN 2163 Compréhension et expression orales, niveau 2**
Poursuite du travail entrepris en FRAN 2153. Il est recommandé que ce cours soit suivi en combinaison avec FRAN 1223 ou FRAN 1623. Les étudiants qui auront déjà obtenu un crédit en FRAN 2013/FRAN 2023 ne seront pas admis à ce cours. Les étudiants qui s'inscrivent dans FRAN 2163 ne peuvent pas s'inscrire simultanément ou ultérieurement dans FRAN 2153, FRAN 1113/1123, FRAN 1013, ou FRAN 1023.

**FRAN 2713 Compréhension et expression écrites**
Apprentissage progressif du français écrit: lire et écrire d'une façon plus efficace. L'accent sera mis sur l'acquisition d'un vocabulaire plus riche, la maîtrise de structures utiles pour l'expression écrite et les techniques de l'autocorrection. Les lectures seront tirées de documents médiatiques récents. L'étude de la grammaire en soi joue un rôle mineur dans ce cours. Il est donc fortement recommendé de suivre en même temps FRAN 2013/FRAN 2023. Préalable normal: FRAN 1223 or 1623. Les étudiants qui auront déjà obtenu un crédit en FRAN 2023 ne seront pas admis à ce cours. Les spécialistes de français doivent suivre ce cours ou bien le FRAN 3733. Les étudiants qui s'inscrivent en FRAN 2713 ne peuvent pas s'inscrire simulanément ou ultérieurement dans FRAN 1113/1123, FRAN 1013 ou 1023.

**FRAN 3013 Langue française et analyse linguistique**
S'appuyant sur une terminologie linguistique en français, on analysera à partir d'exemples concrets le fonctionnement de la langue française dans son état actuel, son évolution historique et sa diversité géographique. Initiation à la phonétique et à la phonologie, à l'analyse morphologique, syntaxique, ainsi qu'aux bases de la lexicologie, de la sémantique et de la sémiotique.

**FRAN 3023 Bases de traduction générale**
Renforcement des capacités écrites de communication. D'une part, on révisera des structures syntaxiques avancées en français et en anglais, de façon parallèle; d'autre part, on travaillera intensivement (avec un système de double correction) des traductions de textes A-F (70%) et F-A (30%) dans tous les domaines – d'articles de journaux aux brochures touristiques - et à divers niveaux de langue.

**FRAN 3133 Littérature française moderne**
Lecture et analyse d'oeuvres choisies des romanciers, dramaturges et poètes les plus représentatifs du 20ème siècle. on mettra l'accent chaque année sur un genre spécifique, selon les désirs du professeur et des étudiants: roman, théâtre, poésie ou chanson.

**FRAN 3153 Expression orale avancée, niveau 3**
Les étudiants apprendront un vocabulaire et des expressions se rapportant à des thèmes tirés de leur vécu. Des débats, discussions et présentations orales leur permettront de mettre ce savoir en pratique. L'improvisation y jouera aussi un rôle important. Des bulletins de nouvelles et des chansons serviront d'exercices de compréhension orale.

**FRAN 3163 Expression orale avancée, niveau 4**
Poursuite du travail entrepris en FRAN 3153.

**FRAN 3203 Voix de femmes**
Ce cours cherche à mettre en valeur la richesse et la diversité des œuvres de femmes écrivains de langue française. À travers un choix d'œuvres de différents siècles, on examinera, entre autres problématiques, la venue de la femme à l'écriture, l'inscription de l'expérience féminine dans les textes et la mise en question de présupposés politiques, sociaux et esthétiques courants.

**FRAN 3213 Littérature jeunesse**
Étude des formes littéraires, passées et présentes, qui visent surtout les enfants de 2 à 12 ans: contes populaires, comptines, chansons, albums pour enfants, histoires pour jeunes, bandes dessinées, pages internet.

**FRAN 3323 La littérature migrante au Québec**
Exploration d'un phénomène nouveau et important dans la littérature québécoise contemporaine: la publication d'œuvres écrites en français, au Québec, par des auteurs venus de pays divers comme le Brésil, l'Égypte, la Chine, l'Italie, Haïti. on abordera des thèmes reliés à l'enfance, au souvenir, à l'exil forcé ou volontaire, à l'adaptation à une nouvelle société et aux différences culturelles.

**FRAN 3443 Panorama des littératures francophones de l'Amérique**
Ce cours étudie les principaux mouvements de migration, de déportation et d'exil qui ont créé une FRANcophonie en Amérique. Des auteurs de la Martinique, de la Guadeloupe, d'Haïti, de l'Acadie, de la Louisiane, de l'Ontario et du Manitoba seront étudiés. *Prérequis: FRAN 2113/FRAN 2123 ou avec la permission du département.*

**FRAN 3503 Le Français québécois et acadien**
Le but du cours est d'offrir aux élèves une description des grandes lignes des aspects divergents (par rapport à la norme) du français québécois et acadien. Bien qu'on fera lire des extraits d'auteurs exemplifiant ces usages, le but premier sera de permettre aux élèves eux-mêmes de lire et comprendre du français québécois et acadien. *Préalable: FRAN 2163 ou avec la permission du département.*

**FRAN 3513 L'Acadie d'aujourd'hui**
Exploration de la culture acadienne des provinces maritimes du Canada, mais aussi de la Louisiane, de la Nouvelle-Angleterre, du Québec, du Canada francophone et de la France. À l'aide de documents authentiques (chansons, films, articles de journaux, émissions de radio et de télévision, textes, sites Internet), nous aborderons les différents aspects de la réalité de l'Acadie et des Acadiens.

**FRAN 3523 Panorama de la littérature acadienne**
Depuis les années 1950, une littérature extrêmement riche affirme l'importance de l'espace imaginaire acadien dans la francophonie. Cet espace imaginaire remonte au 16ème siècle; on peut en suivre les traces écrites et orales. Avec Antonine Maillet et 25 ans d'édition en Acadie, une littérature moderne s'affirme, tout en redécouvrant la richesse de son passé, dans toutes les régions de l'Acadie, ce «pays imaginaire».

**FRAN 3633 Le Québec moderne**
Le cours a pour but l'exploration de la spécificité socioculturelle du Québec. À l'aide de documents authentiques (chansons, films, articles de journaux, émissions de radio et de télévision), nous aborderons les aspects suivants de la réalité québécoise: la géographie, l'histoire, la langue, la religion, la famille, l'éducation et les arts.

**FRAN 3643 Panorama de la littérature québécoise**
Les grandes étapes du développement d'une littérature originale française en terre d'Amérique, des récits de voyage d'explorateurs et de missionnaires de la Nouvelle-France au roman moderne, en passant par la poésie des 19ème et 20ème siècles et le roman de la terre. L'accent sera mis sur les genres narratifs - roman et nouvelle - leur évolution formelle et thématique, et les idéologies dominantes qui s'inscrivent dans les œuvres littéraires à une époque donnée.

**FRAN 3703 La France contemporaine**
Exploration au moyen - entre autres - de films, de textes, de sites internet, des traits principaux qui caractérisent la France et les Français d'aujourd'hui.

**FRAN 3733 Expression écrite avancée**
Cours destiné à ceux et à celles qui ont réussi le FRAN 2013/FRAN 2023 (ou sont en train de le suivre) et veulent continuer à développer leurs compétences dans les domaines de la lecture en français et du français écrit. Des exercices de compréhension, de contraction de texte et de rédaction, enrichis de l'analyse de textes modèles, initieront les étudiants à une variété de genres et de styles.

**FRAN 3743 Compréhension écrite avancée**
Ce cours vise les étudiants qui maîtrisent bien la grammaire fondamentale du français et cherchent à consolider leurs compétences en abordant des sujets plus complexes. L'étude des structures sera renforcée par la lecture d'une variété de textes permettant d'acquérir de meilleures connaissances des cultures francophones, tout en développant le vocabulaire et la maîtrise d'expressions idiomatiques. *Préalable: FRAN 2023.*

**FRAN 4003 Sociolinguistique**
Ce cours vise à faire prendre conscience aux étudiants des politiques linguistiques qui existent à travers le monde. Les étudiants compareront les efforts faits par les gouvernements de plusieurs pays pour protéger leurs minorités linguistiques. Le Canada et ses minorités francophones feront l'objet d'une attention particulière. on fera appel régulièrement à des enregistrements audio et vidéo.

**FRAN 407T Honours Thesis 1**

**FRAN 408T Honours Thesis 2**
*Prerequisite(s): FRAN 407T.*

**FRAN 4203 Traduction générale**
Ce cours aborde certains problèmes fréquents de la traduction de l'anglais vers le français. Des exercices porteront sur les difficultés lexicales, grammaticales et syntaxiques. D'autres exercices pratiques de traduction de courts textes de types divers seront proposés à partir d'une réflexion sur l'éthique et la profession des traducteurs et traductrices.

**FRAN 4403 Méthodologie de l'enseignement du français langue seconde**
Les étudiants se familiariseront avec les méthodes actuelles d'enseignement du français langue seconde. Le curriculum multidimensionnel y sera expliqué. Les implications pédagogiques en seront dégagées. Des plans de leçon permettront de mettre en pratique ces connaissances méthodologiques.

**FRAN 4413 Lectures dirigées 1**
Ce cours permet aux enseignants et aux étudiants d'aborder des sujets spécifiques qui ne feraient pas l'objet d'un cours déjà existant, y compris la possibilité d'un cours en création littéraire. Les sujets et le cadre en sont déterminés par accord entre le département, l'enseignant et les étudiants concernés.

**FRAN 4423 Lectures dirigées 2**
Ce cours est le complément du cours FRAN 4413, le cas échéant.

**FRAN 4553 Littérature francophone: post-colonialisme dans les littératures africaine et antillaise**
Ce cours analyse certains textes de la Francophonie incluant les auteurs africains et antillais. Certains concepts du post colonialisme sont aussi analysés à travers les théories de Jean-Paul Sartre, d'André Breton. Ces textes faciliteront la compréhension des mouvements des indépendances et des autonomies en Afrique et dans les Antilles. *Prérequis: FRAN 2113/FRAN 2123 ou équivalent ou avec la permission du département.*

**FRAN 4613 Littérature québécoise contemporaine: les genres brefs**
La nouvelle, le théâtre, la poésie et la chanson sont de plus en plus populaires au Québec. Comment les analyser sinon en examinant les caractéristiques propres de chacun? Ce cours propose donc l'étude de la spécificité du texte dramatique, du langage poétique et de l'oralité ainsi que l'explication de textes représentatifs de ces genres dits brefs.

**FRAN 4713 Le théâtre classique**
Le 17ème siècle constitue le premier âge d'or du théâtre français. Les auteurs y posent les bases d'une dramaturgie qui hantera la création théâtrale en France pendant trois siècles: grandes passions entrant en conflit avec les valeurs morales et sociales acceptées, folies de l'être humain livré à ses obsessions: Corneille, Racine ou Molière nous font toujours réfléchir aux mouvements de l'âme humaine.

**FRAN 4823 La liberté**
Ce thème révolutionnaire par excellence sera étudié dans l'oeuvre de philosophes et romanciers tels que Rousseau ou Diderot, de romanciers tels que l'abbé Prévost, et d'auteurs de théâtre tels que Beaumarchais. on se concentrera particulièrement sur les auteurs du «siècle des lumières».

**FRAN 4833 Le roman au dix-huitième siècle**
En France, le dix-huitième siècle est une époque importante pour l'évolution du roman, un genre qui est encore à ses débuts. Romans épistolaires, récits à la première personne, narrations encadrées, romans expérimentaux, les formes foisonnent on étudiera. Nous étudierons un choix d'ouvrages qui permettront de suivre les transformations que cette forme encore jeune est en train de subir.

**FRAN 4913: Le roman au dix-neuvième siècle**
Étude de romans représentatifs des principaux mouvements littéraires du dix-neuvième siècle: le romantisme, le ré alisme et le naturalisme.

**FRAN 4923: Poésie et théâtre du dix-neuvième siècle**
Étude de poèmes et pièces de théâtre représentatifs des principaux mouvements et genres littéraires du dix-neuvième siècle.

## Geology

**GEOL 1013 Our Dynamic Earth**
An introduction to the Earth; its composition, internal structure, external features, and physical evolution. The concepts of sea-floor spreading and plate tectonics provide a framework for the origin and development of continents, oceans, mountains and volcanoes, and lead to an appreciation of an evolving, dynamic Earth. Field trips required. (3h lab).

**GEOL 1023 Earth History: Global Change Through Time**
Changes in the Earth's continents, oceans, biosphere, and atmosphere over the past 4.6 billion years. The application of understanding of the past as a key to future global changes. Other topics include mass extinctions, plate tectonics, paleomagnetism, geologic dating,

mountain-building and mineral resources. (3h lab). *Prerequisite(s): GEOL 1013 or equivalent with a minimum grade of C-.*

**GEOL 1033 General Oceanography**
Offshore and deep-water oceanography, emphasizing an interdisciplinary approach and including geological, biological, physical and chemical aspects. History of oceanography; exploration techniques, instruments and vessels; origin of oceans and ocean basins; physiography of the ocean basins; deep-sea sediments; continental drift, sea-floor spreading and plate tectonics; marine volcanism; waves, tides and ocean currents; climatology and sea- level changes; marine ecology; marine resources.

**GEOL 1073 Natural Disasters**
Natural disasters, their causes and effects and the science that underlies decision-making, prediction, and remediation. Topics include volcanoes, earthquakes, tsunamis, rivers and flooding, mass wasting and erosion, subsidence, coastal hazards, severe weather, climate change, impacts and extinctions.

**GEOL 2043 Techniques in Petrology and Stratigraphy**
Origin, occurrence, composition, and classification of igneous, sedimentary, and metamorphic rocks. An integrated overview of petrogenetic processes in a plate tectonic framework, including magma genesis, clastic and carbonate depositional processes, stratigraphic principles, and metamorphic zones and facies. Laboratory study of rocks in hand sample and thin section. (3h lab). *Prerequisite(s): GEOL 2133 with a minimum grade of C-; Prerequisite or Corequisite(s): GEOL 1023 with a minimum grade of C-.*

**GEOL 2083 Field Methods**
Held each spring for twelve days, focusing on field work and processing of field data to familiarize students with techniques of geological mapping. Involves electronic and manual measurement of field data including use of GPS instruments and laptop computers and subsequent preparation of maps, sedimentary sections, and cross-sections in paper and digital form. *Prerequisite(s): GEOL 2043 with a minimum grade of C- or permission of the Department. Corequisite(s): GEOL 2043 with a minimum grade of C- or permission of the Department.*

**GEOL 2133 Mineralogy**
Crystal symmetry and structure. Mineral chemistry, physical properties, associations, and uses. Identification of common minerals in hand sample. X-ray diffraction, transmitted light optical theory, and introduction to the petrographic microscope. (3h lab). *Prerequisite(s): GEOL 1013 with a minimum grade of C- (corequisite with Departmental permission). Corequisite(s): CHEM 1013.*

**GEOL 2213 History of Life**
The morphology, classification and evolution of the major groups of animals and plants in the fossil record. Emphasis will be on invertebrate paleontology, but attention will be given to the origin of life, Precambrian fossils, trace fossils, micro-fossils, fossil algae, vascular plants, lower vertebrates, dinosaurs and man. Laboratory work will include a systematic survey of the major groups of organisms having a fossil record. (3h lab). *Prerequisite(s): BIOL 1123 or GEOL 1023 with minimum grades of C-.*

**GEOL 2703 Applied Geomorphology**
Basic concepts in geomorphology including fluvial systems, continental glaciation, coastal processes, mass wasting, soil development, strength of materials, weathering, periglacial geomorphology, and airphoto interpretation. Emphasis will be on the environmental application of these concepts. Laboratory work will concentrate on airphoto interpretation and mini-projects related to some of these themes. (3h lab). *Prerequisite(s): GEOL 1013 with a minimum grade of C-.*

**GEOL 2753 Atmosphere, Weather, and Climate**
The composition, structure, and dynamics of the atmosphere; weather, climate, and biogeographic patterns; microclimatology; paleoclimates, paleogeography, and extinctions; human effect on air quality; climate change. (3h lab). *Prerequisite(s): Second-year standing.*

**GEOL 3103 Introduction to Geochemistry**
Investigation of chemical principles involved in geologic processes, emphasizing those acting on the surface and in near-surface environments. Topics include weathering, mineral exploration and environmental geochemistry applications. May be offered in alternate years. (3h lab). *Prerequisite(s): GEOL 2133 with a minimum grade of C-; Prerequisite or Corequisite(s): CHEM 1023.*

**GEOL 3303 Sedimentary Geology**
Study of clastic, chemical and biogenic sedimentation and diagenetic processes, sedimentary environments and facies and reservoir development. Field and laboratory techniques for the analysis, interpretation and classification of sediment and sedimentary rock textures, compositions and structures. (3h lab). *Prerequisite(s): GEOL 2043 with a minimum grade of C-.*

**GEOL 3403 Igneous Petrology**
The origin of magmas, their evolution, and crystallization. Igneous provinces and the relation between igneous activity and tectonics. Patterns of igneous activity through geological time. Laboratory studies of classical and local igneous rock suites. (3h lab). *Prerequisite(s): GEOL 2043 with a minimum grade of C-.*

**GEOL 3503 Metamorphic Geology**
The mineralogical, textural, and structural characteristics of metamorphic rocks and the development of metamorphic facies. Contact and regional metamorphism, metasomatism, and anatexis are considered in detail. Current ideas relating metamorphism and tectonic setting provide the framework. Laboratory studies of classical and local metamorphic rock suites. (3h lab). *Prerequisite(s): GEOL 2043, GEOL 3603 with minimum grades of C-; GEOL 3403 recommended.*

**GEOL 3603 Structural Geology and Tectonics**
Rock structures and their geometric representation. Principles of stress and strain applied to brittle and ductile rock deformation. Fractures, faults, folds, and foliations: classification and mechanisms of formation. Plate boundary and intraplate tectonics. Practical work includes map interpretation, graphic and computer techniques for analyzing structural data, and field studies of deformed rocks. (3h lab). *Prerequisite(s): GEOL 2043 with a minimum grade of C-.*

**GEOL 3723 Hydrogeology**
Groundwater as part of the hydrologic cycle. Physical aspects of water movement in geologic materials - both saturated and unsaturated. Groundwater resource mapping and exploitation. Groundwater chemistry and biology: drinking water quality, contamination and associated health concerns. Exposure to laboratory and field techniques for groundwater monitoring. Field trips may be required. (3h lab). *Prerequisite(s): GEOL 2703 with a minimum grade of C-.*

**GEOL 3733 Satellite Remote Sensing and Image Analysis**
An introduction to the principles, practices and applications of satellite remote sensing. Electromagnetic spectra, satellite platforms, image enhancement, image classification and interpretation. Environmental and resource applications will be discussed. Laboratory work focuses on using image analysis programs to analyze satellite imagery. (3h lab). *Prerequisite(s): GEOL 2703 or BIOL 2033, with a minimum grade of C-, and permission of the instructor.*

**GEOL 3823 Exploration and Environmental Geophysics**
Principles and applications of geophysical methods used by the exploration and environmental geoscientist, including seismic, magnetic, gravimetric, electromagnetic, electric, and radiometric methods. May be offered in alternate years. *Prerequisite(s): GEOL 2043 with a minimum grade of C-.*

**GEOL 3843 Energy Resources in Earth Science**
Overview of non-renewable and renewable sources of energy associated with earth processes and materials, including carbon-based, geothermal, nuclear, tidal, solar, wind, and hydroelectric energy sources, generation, transmission, and storage. Topics also include processes and environments of formation of the required materials, exploration for, production of, and temporal supply and demand for these resources. *Prerequisite(s): GEOL 1013, GEOL 1023.*

**GEOL 4013 Global and North American Geology**
Global tectonics, processes at convergent plate margins, worldwide Phanerozoic orogenic belts and Precambrian tectonics. An integrative study of the geological evolution of North America, including stratigraphy, structural development, and Quaternary history but with an emphasis on comparative tectonic evolution of the Cordilleran, Appalachian, and Precambrian orogenic belts. Laboratory work includes map interpretation and petrological studies of rock suites (3h lab). *Prerequisite(s): GEOL 3603 with a minimum grade of C-.*

**GEOL 407T Honours Thesis 1**

**GEOL 408T Honours Thesis 2**
*Prerequisite(s): GEOL 407T.*

**GEOL 4083 Senior Field School**
Advanced field methods of geological mapping and preparation of maps and reports. Includes 8 days preceding the Fall term and continues into the term. *Prerequisite(s): GEOL 2083, GEOL 3603, both with a minimum grade of C-, or permission of instructor.*

**GEOL 4303 Carbonate Sedimentology Field School**
This course focuses on the sedimentology, oceanography, and diagenesis of carbonate sediments and rocks of Bermuda. Investigation of Nova Scotia limestones introduces key concepts. Lectures and field exercises focus on carbonate depositional environments and the development of groundwater and hydrocarbon reservoirs in limestone. Assignments use sedimentologic, ecologic, and chemical techniques to understand the deposition of carbonate facies. *Prerequisite GEOL 3323 or permission of the instructor.*

**GEOL 4713 Glacial Geology**
A treatment of specific topics in glacial geoscience with particular emphasis on environmental change during the Quaternary time period. Topics covered will include glaciations, glacial landscapes, glacial hazards, paleoclimate, Quaternary dating techniques, human activity, and exploration in glaciated terrain. *Prerequisite(s): Permission of the instructor.*

**GEOL 4803 Mineral Deposits**
The nature, occurrence and origin of mineral deposits, with emphasis on metallic deposits. (3h lab). *Prerequisite(s): GEOL 3403, GEOL 3603, both with a minimum grade of C-.*

**GEOL 4813 Mineral Exploration**
Introduction to mineral exploration techniques, economic deposit, evaluation strategies, and mining and processing methods. Offered only when the corresponding graduate course GEOL 5883 is taught. (3h lab). *Prerequisite(s): GEOL 4803 with a minimum grade of C-.*

**GEOL 4833 Exploration and Environmental Geochemistry**
Geochemical principles and techniques applied in mineral exploration and environmental geochemistry. Includes theory of dispersion, natural precipitation barriers, solubility, sorption and the design and execution of geochemical surveys, analysis of samples, and interpretation of results. Offered only when the corresponding graduate course (GEOL 5833) is taught. *Prerequisite(s): GEOL 3103,*

*GEOL 4803, or CHEM 2853, with a minimum grade of C- or permission of the instructor.*

**GEOL 4853 Geochemical Material Transfer**
Introduction to the theory of material transfer and its use in interpreting geochemical and mineralogical controls on rock composition and formation, including water-rock and melt-crystal reactions and physical grain fractionation. Interpretation of results using petrologic hypothesis testing and error propagation. *Corequisite(s): GEOL 3403 or GEOL 3503. Offered only when the corresponding graduate course (GEOL 5823) is taught.*

**GEOL 4913, GEOL 4923, GEOL 4933 Special Projects**
Guided study in an area of particular interest under the direction of a staff member. Such work may be based on lecture, field, laboratory or library study, or all four, focusing on aspects of earth science not normally covered in the scheduled course offerings. The student may have responsibility in programming the research in addition to its conduct. *Prerequisite(s): Permission of the Department.*

## German

The department reserves the right to direct students to the course most appropriate to their level of competency.

**GERM 1013 German for Beginners 1**
Students acquire basic speaking, reading and writing skills in German by using different learning tools (project work, internet and online tasks, video clips etc.). A variety of group and pair-activities combined with grammatical instruction will provide students with ample opportunity to strengthen and increase their communication skills.

**GERM 1023 German for Beginners 2**
Students acquire basic speaking, reading and writing skills in German by using different learning tools (project work, internet and online tasks, video clips etc.). A variety of group and pair-activities combined with grammatical instruction will provide students with ample opportunity to strengthen and increase their communication skills. *Prerequisite(s): GERM 1013 or equivalent.*

**GERM 2013 Intermediate German 1**
After a quick review of basics, new grammatical structures are introduced. Comprehension and speaking as well as writing are practiced, using as aids, texts and slides on modern Germany. *Prerequisite(s): GERM 1023 or equivalent.*

**GERM 2023 Intermediate German 2**
After a quick review of basics, new grammatical structures are introduced. Comprehension and speaking as well as writing are practiced, using as aids, texts and slides on modern Germany. *Prerequisite(s): GERM 2013 or equivalent.*

**GERM 2513 Intermediate Conversational German 1**
The emphasis is on the acquisition of vocabulary, idioms and sentence structure necessary for dealing with situations in everyday life as well as for mastering conversations on relevant topics. Written work is involved. Grammar is reviewed on an ad hoc basis only. *Prerequisite or Corequisite(s): GERM 2013 or permission of the Department.*

**GERM 2523 Intermediate Conversational German 2**
The emphasis is on the acquisition of vocabulary, idioms and sentence structure necessary for dealing with situations in everyday life as well as for mastering conversations on relevant topics. Written work is involved. Grammar is reviewed on an ad hoc basis only. *Prerequisite or Corequisite(s): GERM 2023 or permission of the Department.*

**GERM 2813 Introduction to German Culture and Literature 1**
in the past 130 years Germany played a pivotal role in Europe. What is unique about Germany? This course attempts to answer these questions with historical and contemporary texts, films and other media, and through literature. This course is taught in English. *Prerequisite(s): Second-year standing.*

**GERM 2823 Introduction to German Culture and Literature 2**
Continuation of GERM 2813. *Prerequisite(s): Second-year standing.*

**GERM 2913 From War to War**
Reflections of German political and social history from WW I to WW II through its literature. Through selected readings in German literature, this course looks at how German authors define the German nation and its pivotal role in history, especially in World War I and the Third Reich. This course is taught in English.

**GERM 2923 Division and Unification**
Reflections of German political and social history from the end of WW II to the fall of the Wall though its literature. Selected readings in this course examine Germany and Germans in the post World War II era, their retrospective interpretation of the war and their view of the place of a divided, then reunited Germany in the world. This course is taught in English.

**GERM 3013 Advanced German 1**
Main topics are speaking, reading, writing German at the advanced level, review of German grammar, introduction to written composition, discussion of nonfictional and fictional German texts. *Prerequisite(s): GERM 2023 or permission of the Department.*

**GERM 3023 Advanced German 2**
Main topics are speaking, reading, writing German at the advanced level, review of German grammar, introduction to written composition, discussion of nonfictional and fictional German texts. *Prerequisite(s): GERM 3013.*

**GERM 3313 Modern and Contemporary German Literature 1**
A study of literary developments in Germany from the turn of the century to World War II.

**GERM 3323 Modern and Contemporary German Literature 2**
A study of literary developments in Germany since World War II.

**GERM 3413 History of German Literature 1**
A survey of literary and cultural developments from the beginnings of German literature until the age of Enlightenment. *Prerequisite(s): permission of the Department.*

**GERM 3423 History of German Literature 2**
A survey of literary and cultural developments from the late eighteenth to twentieth century.

**GERM 3503 Reformation to Enlightenment**
This course will focus on the study of representative authors of this period such as Martin Luther, Hans Sachs, Martin Opitz, J.J.C. von Grimmelshausen, J.C. Gottsched, and G.E. Lessing.

**GERM 3603 Classical Period and Early Romanticism**
A survey of the major ideas and literature of the classical period. The attention focuses on the works of Goethe and Schiller. Introduction to the theoretical and poetic works of early romantic authors such as Wackenroder, Tieck, Schlegel, and Novalis.

**GERM 3703 Pre-Realist Period**
This course deals with the literature from the age which overlaps Classicism and Romanticism and includes authors, dramatists and poets who do not fit in those categories or certain works by otherwise Classical and Romantic poets that cannot be seen as belonging (completely) to Classicism or Romanticism. The course will study a cross section of plays, novellas and poems by Heinrich von Kleist, Eduard Mörike, Franz Grillparzer, Georg Büchner, Heinrich Heine, Adalbert Stifter.

**GERM 3803 Realism**
This course focuses on the literature of the age of Realism which lies roughly between 1850 and 1900. It will include works by Gottfried Keller, Wilhelm Raabe, Theodor Storm, Conrad Ferdinand Meyer, the early Thomas Mann, and Friedrich Nietzsche. Special emphasis will be placed on the works of Theodor Fontane.

**GERM 407T Honours Thesis 1**

**GERM 408T Honours Thesis 2**
*Prerequisite(s): GERM 407T.*

**GERM 4813/GERM 4823 Individual Readings of German Literature**

## Greek

**GREE 1103 Elementary Greek I**
Introduction to classical Greek, using a reading rather than a conversational approach. Emphasis is on learning the basics of Greek grammar. This course counts toward the second language requirement.

**GREE 1113 Elementary Greek II**
Completion of the introduction to classical Greek continuing with the reading approach and course materials used in Elementary Greek I. This course counts toward the second language requirement. *Prerequisite(s): GREE 1103.*

**GREE 2013 Intermediate Greek I**
The study of classical Greek continuing with the reading approval used in Elementary Greek I and II. After a period of review students begin their study of advance aspects of grammar and syntax. *Prerequisite(s): GREE 1113 with a minimum grade of B-. Antirequisite(s): GREE 2006.*

**GREE 2023 Intermediate Greek II**
Completion of the study of advanced aspects of Classical Greek grammar and syntax begun in Intermediate Greek I. *Prerequisite(s): GREE 2013 with a minimum grade of B-. Antirequisite(s): GREE 2006.*

**GREE 2906 Selected Readings in Greek Texts**
Selections from classical Greek authors. *Prerequisite(s): GREE 1113 with a minimum grade of B-.*

**GREE 3003 Advanced Greek**
Grammatical readings of a sampling of ancient Greek texts in literature and philosophy, selected to prepare students for graduate study in Classics. Students must be prepared to make a significant investment of time in their study of Greek at this level. *Prerequisite(s):*

*GREE 2023 with a minimum grade of B-.*

**GREE 3103 Hellenistic Greek**
Readings from a large variety of Jewish, Christian, and pagan texts from the Hellenistic and Roman periods. *Prerequisite(s): GREE 2023 with a minimum grade of B-.*

## History

**HIST 1003 The Practicing Historian**
This course will use case studies and hands-on learning to introduce students to the variety of sources and approaches used by today's practicing historians. Oral history, public history, visual and material culture will all be included, along with an examination of a variety of more traditional ways that quantitative and qualitative data may be analyzed, interpreted, and disseminated by historians. *Prerequisite(s): History major or permission of the Department.*

**HIST 1043 The Middle East in World History**
The term Middle East was invented to identify a region and a culture. The course follows the development of that culture by examining the centrality of the "Middle East" in global cultural and economic exchanges that have led to the region's prominent role in global politics, including political Islam, migration and migrants, and the resulting debates on Islamization and secularization. *No prerequisite.*

**HIST 1413 Global History Before 1500**
This course uses a thematic and comparative approach to explore major issues in world history. Students will examine different cultural zones and historical eras, from the inception of the agricultural revolution to the emergence of Europe as a dominant region of the globe. Themes include trade, environment, cities, patriarchy, technology, and political systems.

**HIST 1423 Global History After 1500**
This course examines the intricate links among cultures that have arisen in the last five centuries. This period witnessed the rapid rise of the West to economic, political and cultural dominance. In response, various forms of resistance and nationalism emerged, with remarkable ideological innovation and social transformations in China, India, the Middle East, Africa, and Latin America.

**HIST 1533 Britain in World History to 1707**
Through lectures and case studies, students will explore Britain within a broad geographic context. Case studies may include documents and material culture from Prehistoric and Roman Britain, the Saxons and Vikings, the late Middle Ages, or the Tudors and Stuarts. Themes covered may include gendered power, migration, trade, settlements, religion, or the growth of kingdoms and parliament. *Prerequisite(s): This course is open to students who have completed fewer than 60h, or with permission of instructor.*

**HIST 1613 Ideas that Moved the Modern World**
Spanning the 18th Century Enlightenment to the Era of Globalization, this course introduces students to the most influential ideas of the modern era as well as the social movements they produced. Among the topics explored are romanticism, nationalism, conservatism, socialism, irrationalism, Freudianism, and Nazism. Our focus is on the political ideologies that defined the landscape of the 20th century. *Prerequisite(s): This course is open to students who have completed fewer than 60h, or with permission of instructor*.

**HIST 1693 Themes in History**
Exploration of various historical topics, responding to recent developments in the field and other disciplines that advance our understanding of historical relevance.

**HIST 1713 War and the World: Global Military History since 1500**
This course surveys major developments in global military history since 1500. Emphasis will be placed on the impact of new technologies, weapons, environments, tactics and strategies, but continuities in the conduct of war will also be considered. A global perspective is crucial to this course.

**HIST 1813 History of Art: Prehistory to 1400**
Art from prehistoric times to Giotto is considered in relation to its cultural and historical context. Cross-coded as ART 1813. *Antirequisite(s): Credit can be obtained for only one of HIST 1813 or ART 1813 or ART 1113.*

**HIST 1823 History of Art: 1400 to Present**
Art from the time of Giotto to the present is considered in relation to its cultural and historical context. Cross-coded as HIST 1823. *Antirequisite(s): Credit cannot be obtained for HIST 1823 or ART 1823 or ART 1123.*

**HIST 1913 The African Canadian Experience**
Spanning 400 years of the African presence in Canada, this course explores how African-descended peoples have resisted slavery and racial oppression, and the political, social, economic, gender, class and other factors that have influenced their experience. Through lectures, field trips and hands-on workshops, students learn how African Canadians have contributed to the building of this nation, and the global diaspora. Cross-coded as IDST 1213. *No prerequisite. Antirequisite(s): Credit can be obtained for only one of HIST 1913 and IDST 1213.*

**HIST 2003 The Christian Religious Tradition**
An analysis of the development of the Christian religious tradition, noting its cultural contextualization, institutional themes and religious rites and beliefs. Attention will be given to the formation of the religious community, eastern, western, Radical, Protestant and mystical

varieties, major reforms and characters. Students will read original texts as well as major critiques and interpretations of Christianity. *No prerequisites.*

**HIST 2033 Ancient and Islamic Civilization in The Middle East**
A survey of the Middle East from Sumero-Akkadian times (2500BCE) to the end of the Abbasid caliphate (1258CE). Traces the development of civilization through a renowned series of cultures and religions, such as those in the Babylonian and Persian periods. The rise of Islam as a major power in the region is emphasized. *No prerequisite.*

**HIST 2073 The Arab-Israeli Conflict**
Arab and Israeli nationalism originated in the modern period and have been in conflict since the First World War. The course is a treatment of the origins and development of the conflict through the 20th century, investigating national ideologies, issues central to the contemporary peace process, such as borders, population transfers, and Jerusalem. *No prerequisite.*

**HIST 2123 Gender and Sexuality in Europe to 1789**
A study of the role of gender from the early civilizations to 1789. This course examines gender relations and societal expectations of women and men from the earliest civilizations to 1789. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2133 Gender and Sexuality in Modern Europe**
A study of the role of gender from 1789 to the 1960s. This course examines gender relations and societal expectations of women and men from the French Revolution to the mid-twentieth century. A discussion of the cultural and political dimensions of gender and sexuality. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2203 World War One**
This course examines the origins, progress and consequences of World War One. Topics include the causes of the war, the opening moves of 1914, the battles of attrition, trench warfare, the war at sea and in the air, the global influence of the war, the evolution of strategy and tactics and the impact of new weapons. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2213 World War Two**
This course examines the origins, progress and consequences of World War Two. While strategy and battlefield tactics form a major focus of the course, other topics such as the Holocaust, the air war, the war at sea, resistance and collaboration are also covered. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2263 Canadian Women's History**
A thematic survey of the history of women in Canada from Contact to the present. Special attention will be given to the diversity of women's cultures, the changing roles of women in industrial society, and efforts by women to achieve economic, political and social equality. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2283 Environmental History**
This course investigates the relationships between humans and their environment, and how and why these relationships have changed over time. Topics of study include: theoretical and methodological approaches to environmental history; differing conceptions of the environment; the impact of industrialization; the spread of settlement, and resource exploitation; the changing nature of environmentalism; and new directions. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2303 America and the Age of Revolution**
A series of revolutions rocked the eighteenth-century Atlantic World and transformed western society. This course explores those revolutions and the social and cultural forces that produced them. We focus on the American Revolution and its impact on the Caribbean and Latin America, where slave uprisings and national liberation movements challenged European colonial control. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2313 The Dilemma of Modern America**
This course examines the American encounter with industrialization, imperial expansion, popular culture, and movements for social reform. Covering the 1880s to the early 21st century, students will consider the tensions between the protection of democratic freedom and the emergence of the United States as a superpower. Our examination of the American past will emphasize a comparative and international perspective. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2343 Maritime Provinces to 1867**
The history of the Maritime region of Canada from the sixteenth century to Confederation. Special emphasis is given to the peopling of the region by immigrant groups and their interaction with the Native people. The evolution of the social, political, economic and religious institutions to 1867 is examined. *No prerequisite.*

**HIST 2353 Maritime Provinces Since 1867**
The development of Nova Scotia, New Brunswick and Prince Edward Island in the post-Confederation period. Maritime adjustment to political union and its role within Confederation will be examined. Special emphasis will be placed on social, religious, economic and political trends, and the issues of ethnic assimilation and survival will be addressed. *No prerequisite.*

**HIST 2393 Latin America**
The colonial policy of Spain and Portugal in the New World; the development of colonial society and the struggle for independence. Emphasis will be placed upon the major political and social problems encountered by the people of Mexico, Argentina, Brazil, and Chile

since the early nineteenth century. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2403 Capital and Labour in Canada**
Selected topics in the history of Canadian business and labour, including the emergence of industrial capitalism and the Canadian working class. Special emphasis will be placed on advances in industrial production, the organization of capital and workers' responses to these developments. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2453 History Alive! Ancient Greece and Rome**
In this course, students will bring ancient history to life by playing two full "Reacting to the Past" games: "The Threshold of Democracy: Athens in 403 BCE" and "The Crisis of Catiline: Rome, 63 BCE". Students are assigned character roles with specific goals: they must communicate effectively, collaborate, and compete to advance their objectives to try to "win" the game. *Prerequisite(s): Second-year standing or above.*

**HIST 2463 Youth Culture in Canada Since 1918**
This course will explore the changing nature of youth culture in Canada since the end of the First World War. Specific emphasis will be placed on the roles played by popular entertainment, the automobile, universities, alcohol and narcotics in shaping the world of Canadian youth. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2483 Selected Topics in Canadian-American Relations**
Areas of study include military (impact of the American Revolution, Civil War, World Wars, and the war in Vietnam), economic (branch plants, NAFTA, fresh water, cross-border shopping), and social and cultural influences (media, sports, music). *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2493 Canadian History on Film**
This course explores Canadian film-making over the past century with a focus on the representation of Canadian history through documentary and feature films. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2503, Slavery and Freedom in the Age of Lincoln**
The defining moment of the American experience in the nineteenth century was the Civil War. Examining the development of slavery, the changing nature of antebellum society, and the growing political dispute between the North and the South, this course will explore the revolutionary transformation produced by the struggle over slavery and freedom. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2533 The Middle Ages: Fact not Fiction**
Images and stories based in medieval history and culture are commonly used in film, gaming, and political movements. These can distort the past, creating false impressions. Focusing on Western Europe and the Mediterranean, this course introduces students to the real Middle Ages. Topics include Germanic migrations, religious expansion, kingdom formation, Church/State relations, heresy, learning, art, and architecture. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2543 Introduction to Europe: Since 1500**
European history surveyed from 1500 to the present. Topics include the rise of religious division; the impact of reason and revolution; the evolution of the European nation-state; the rise and fall of European cultural, economic, and political dominance globally; the division of the continent and the establishment of the federal "super-state" after 1945. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2553 Educating Canadians**
The origins and evolution of Canadian primary and secondary education. Topics to be explored include changing attitudes towards children, debates over curriculum and teaching methodologies, and the emergence of women as teachers. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2563 Imperial China: Emperors, Concubines, Peasants**
An introduction to Chinese civilization covering religious, cultural, intellectual and historical aspects from the age of Confucius until the 20th century. The focus is on change and continuity of ideas and institutions in traditional and early modern China. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2593 History of Canada's First Nations**
This survey course examines the cultures, economies and politics of Canada's Indigenous peoples before and since the Contact period. Particular attention is paid to social structures, the impacts of contact and the resilience of aboriginal cultures within an industrialized, Western nation. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2603 African Canadian Women's History**
This course will examine how race, class, gender and geographic location have influenced the experience of African Canadian women over the past 400 years. The role played by African Canadian women in resistance to slavery and racial oppression, civil rights struggles, and the labour movement will be explored in light of their contributions to Black Canadian society and culture. *Prerequisite(s): Second-year standing.*

**HIST 2613 History of Medicine**
This course examines the development of medicine from antiquity to the present. Among the major topics to be addressed: concepts of disease; social construction of the body; development of 'germ theory' and the growth of modern medical science; development of public health; histories of medical practitioners including physicians, midwives and nurses; history of medical institutions including hospitals, asylums and laboratories. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2623 History of Science and Technology**
A survey course introducing students to the major themes, episodes, controversies and key issues in the history of Western science from antiquity to the twentieth century. Areas that will be examined include: the relationship between religion and science; the place of humanity within a scientific universe and the interrelationship between science and technology and its impact on human societies. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2643 Sensory History**
This course introduces students to the dynamic field of sensory history and sensory studies. Individuals and communities 'make sense' of their bodies, societies, and environments through sounds, smells, tastes, textures, and sights. The senses are culturally and historically specific and reveal important information about how various societies have understood themselves, others, and the materials and environments that surrounded them. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2653 Law and Life in Medieval England**
Legal systems develop and change over time. They shape and are shaped by society. Using surviving documents (charters, writs, statutes, contracts, court rolls, wills, law codes), students explore both the evolution of the English legal system, from Germanic customs to early Common Law, and the experiences of those living under the law from the 5th to the 15th centuries. *Prerequisite(s): 30h university courses.*

**HIST 2663 Archaeology Methods: Forensic Archaeology Field Methods**
This field course involves searching for the remains of American service personnel in the Second World War European theatre. Students will have the opportunity to develop archaeological skills, techniques, and methods in a real-life, hands-on project, and to contribute to an on-going effort to repatriate the remains of those who gave their lives in the service to their country. *Prerequisite(s): HIST 2683 or permission of the instructor.*

**HIST 2673 A History of Witchcraft & Magic**
This course examines social, cultural, and legal histories of witchcraft, magic, and the occult. Considering ancient, medieval, early modern, and modern settings the course explores how attitudes and actions around witchcraft and the supernatural intersect with histories of gender, race, class, colonialism, religion, science, and popular culture. Students examine a wide array of primary sources from diverse historical contexts. *Prerequisite(s): 30h of university courses.*

**HIST 2683 Forensic Archaeology: Clandestine Burials, Mass Graves, Crash Sites and Human Rights**
Introduction to the archaeological methods and theories used to assist in the investigation of forensics and the recovery of human remains. MIA cases from past conflicts will be examined to provide students with hands-on experience of determining when and how a case moves from desk-based work into the field. International humanitarian forensics and international crimes will also be discussed.

**HIST 2693 Special Topics**

**HIST 2733 African Canadians in the Maritimes**
For more than 400 years, African Canadians have made vital contributions to the economies and cultures of the Atlantic World. This course traces successive migrations of people of African descent to Maritime Canada, and explores strategies they developed to surmount challenges posed by slavery and colonialism, as well as issues arising from gender, class, labour and racial discrimination.

**HIST 2743 Feudal Japan: Peasants, Monks and Samurai**
This course details the history of Japan from the rise of the Yamato State through to the Sengoku Period of the sixteenth century. Topics to be covered: Shinto and the national mythology; development of Japanese Buddhism; aristocratic ages of Heian and Nara; Kamakura and Ashikaga shogunates; and the emergence of a 'feudal' state in medieval Japan. *Prerequisite(s): 30h of university courses or permission of the instructor.*

**HIST 2753 Africa and the World**
An introduction to African history, investigating historical debates upon the significance of Africans in human cultural development, ancient and medieval civilizations, and modern global society and economy. Topics include ancient North Africa and Egypt, expansion of Niger-Congo and Bantu cultures, formation of Islamic Empires, and assessing Africa's place in the world during the Atlantic Slave Trade. *No prerequisite.*

**HIST 2773 Pre-Confederation Canada**
An introduction to Canadian history focusing on Aboriginal societies, New France and British North America to 1867. In addition to general knowledge of Canadian history, students will be introduced to the variety of historical theories and methodologies that characterize the field. *No prerequisite. Antirequisite(s): Credit can be obtained for only one of HIST 2773 or CDNS 2773.*

**HIST 2783 Canada Since 1867**
A survey of Canadian history since Confederation, focusing on the political, economic, and social developments in the modern age. In addition to general knowledge of Canadian history, students will be introduced to the variety of historical theories and methodologies

that characterize the field. *No prerequisite. Antirequisite(s): Credit can be obtained for only one of HIST 2783 or CDNS 2783.*

**HIST 2803 The Age of Revolt and the Rise of Reaction**
The early 20th century witnessed an explosion of history-changing mass movements. Exploring the intersection of ideas and social conditions in London, Paris, Berlin and New York, this course traces the development of movements that questioned the organization of modern capitalist society and challenged authoritarian rulers and ideologies. Events covered include revolutions following World War I and the rise of anti-fascism. *Prerequisite(s): Second-year standing or permission of instructor. Antirequisite(s): Credit can be obtained for only one of HIST 2803 or HIST 3753.*

**HIST 3033 History of the Holocaust**
This course will examine the origins, course, and consequences of the Holocaust, one of the worst genocides in history. Topics will include the rise of antisemitism, Nazi racial policies, the transition from persecution to mass murder, the organization of the camps, responses to the Holocaust and the postwar search for justice. *Prerequisite(s): 30h of university courses.*

**HIST 3113 Tudor England, 1485-1603**
Covers Tudor absolutism and the subservience of parliament; the English Reformation in all its aspects; social and economic problems caused by the growth in population, enclosures and inflation; England's involvement on the continent, in Scotland and in Ireland; England's emergence as a sea and colonial power; cultural-intellectual developments. *Prerequisite(s): 12h History courses.*

**HIST 3133 Stuart England, 1603-1714**
Covers early Stuart absolutism; Commonwealth, Cromwell and the Protectorate; the restoration of the Stuarts and renewed confrontations over politics and religion; the Glorious Revolution and the supremacy of parliament; the last of the Stuarts, their continental wars and the emergence of England as a first-rate power; cultural-intellectual developments. *Prerequisite(s): 12h History courses.*

**HIST 3143 Canada's Visual History**
Photography, movies, art, and public spectacle have all been used to make, record, and commemorate the nation's history. This course will explore the history of visual media, and examine selected topics in Canadian history to consider ways visual media can be employed as historical sources. *Prerequisite(s): 12h History courses and third-year standing*.

**HIST 3203 Unlocking the Archival Record**
Through the application of preserving and making available archival collections in original and digital formats, this hands-on course examines archival principles and processes. It explores the purpose of record creation and the place of archives in society to gain an understanding of the role of documents within the educational setting and the context of heritage institutions and knowledge mobilization. *Prerequisite(s): 12h History courses and third-year standing*.

**HIST 3243 The Reformation**
This course examines the Reformation period, uncovering the religious, social, and political tensions that shaped European and global histories (ca. 1450-1750). Focus is given to late medieval Christianity, Protestantism, Catholic Reformations, revolts and uprisings, art, gender, class, and race. The course adopts a global perspective, considering the far-reaching implications of the Reformations in Europe, Asia, Africa, and the Americas. *Prerequisite(s): 12h History courses.*

**HIST 3253 Society and Politics in France, 1789-1871**
This course is designed to introduce students to the political, social and cultural history of France between 1789 and 1871. It explores the numerous political experiments and revolutions throughout the nineteenth century. *Prerequisite(s): 12h History courses.*

**HIST 3263 Society and Politics in Modern France**
This course is designed to provide students with an exploration of the political and social changes which occurred in France between 1871 and 1968. Subjects and themes for examination include Bonapartism, imperialism, cultural life, anti-Semitism. The impact of the German occupation, France's role in the creation of the European community and the 1968 Revolution will also be covered. *Prerequisite(s): 12h History courses.*

**HIST 3273 Making Britain Modern: From the Industrial Revolution to World War I**
An in-depth study of the transformation of Britain from the late 18th century to the outbreak of the First World War. Topics and themes may include industrialization, social protest, democratization, emergence of modern mass politics, commercialization of popular culture, family, sexuality and Victorian social theory, as well as cultural and literary themes. *Prerequisite(s): 12h History courses.*

**HIST 3283 Comparative Revolutions and Wars 1**
A comparative study of the revolutions and wars accompanying them during the early modern period in Britain and America. Includes analysis of various theories of revolution. Major revolutions to be studied include English and American revolutions. *Prerequisite(s): 12h History courses.*

**HIST 3293 Comparative Revolutions and Wars 2**
A comparative study of the revolutions and wars accompanying them during the modern era. Includes analysis of various theories of revolution. Major revolutions to be studied include French and Russian revolutions. *Prerequisite(s): 12h History courses.*

**HIST 3303 Genocide and Justice**
This course explores atrocity and accountability in the modern world. Using first-hand accounts and academic analyses, students will

review historical cases of genocide through two lenses: 1) the lived experiences of mass violence, and 2) international responses to atrocity. The tragic link between genocide and justice will be traced throughout as we confront history's darkest deeds. *Prerequisite(s): 30h university courses.*

**HIST 3323 Dissent and Conformity in Modern America**
Political protest and the mobilization of mass movements has defined modern America, and not only in the 1960s. Studying episodes from the late nineteenth century to the early 21st century, this course will examine how individual dissent and collective organization intersected in the struggles to expand the parameters of democracy in the United States. *Prerequisite(s): Second-year standing.*

**HIST 3343 History of Federalism in Canada**
This course examines the social and political contexts of the major debates about federalism in Canada. In a seminar format, students will apply a historical perspective to the crisis points in the relationship between Ottawa and the provinces since 1867. *Prerequisite(s): 30h university courses.*

**HIST 3363 Nova Scotia Since 1867**
The economic, social and political developments in Nova Scotia since Confederation. Special emphasis is given to the effects of North American industrialization and transcontinental political structures on the province and provincial movements designed to conform to the problems of regional disparity. *Prerequisite(s): 30h university courses.*

**HIST 3383 Canadian Environmental History**
A study of the environmental history of Canada. Themes to be covered range from the way in which the Canadian environment shaped the history of human settlement in the country's various regions through to the effects of industrialisation on the Canadian environment. *Prerequisite(s): 12h History courses.*

**HIST 3393 Women and Gender in Canadian History**
An in-depth examination of selected topics in Women's and Gender history in the Canadian context. Topics may include paid and unpaid work, health, parenthood, feminism, sexuality, social welfare, immigrant women, Native women, relations to the state, the military, popular culture and education. *Prerequisite(s): 12h of History courses, including HIST 2263 or permission of the instructor.*

**HIST 3413 Modern Japan, 1600-1945**
This course examines Japanese history from the Tokugawa era (1600-1868) through to the end of the Pacific War. Topics to be covered include: samurai and chonin (townspeople) cultures; the political structure of the shogun's government (bakufu); the Meiji Restoration; the failure of Taisho democracy in the 1920s; and Japanese imperialism in Asia ending with the war in the Pacific, 1937-1945. *Prerequisite(s): 12h History courses.*

**HIST 3423 Race and Class in 20th Century Africa**
Racial and tribal categories informed political policies during the colonial era, yet as a result of changes brought about by colonial economies, new social and political groups and strategies emerged. The course will trace this important process and seek an understanding of its cultural and political consequences through a study of racial policy in Africa. *No prerequisite.*

**HIST 3443 Africa and European Imperialism, 1800-1960s**
This course examines three phases of African history: Pre-colonial societies such as the Zulu; British; French; German imperialism and colonial rule; the rise of African independence movements in the twentieth century. Topics to be discussed include the Islamic states of north and west Africa; the slave trade; the `Scramble for Africa'; the Zulu and Boer Wars and African nationalism. *Prerequisite(s): 12h History courses.*

**HIST 3453 Islam and Nationalism in the Modern Middle East**
During the 20th century Islamic and national revolutions swept the Middle East. Religious and ethnic identities underwent a radical transformation reflecting the impact of Western political thinking and social and economic change. The course will investigate Arab Nationalism, Zionism, and Islamism through the Arab-Israeli political crisis and the emergence of Islamist movements across the region. *No prerequisite.*

**HIST 3463 Russia: Tsarism to Stalinism**
A detailed examination of the major themes of the late Tsarist and early Soviet periods. Topics addressed include the peasantry; pre-war industrialisation; the development of revolutionary thought; the impact of World War I; the Russian Revolution; the Russian Civil War; and the rise of Stalin and Stalinism. *Prerequisite(s): 12h History courses.*

**HIST 3473 Power and Statecraft, 1870-1945**
Covers the diplomatic history of Europe from the unification of Germany to the end of the Second World War. Particular emphasis will be placed on the origins of wars. The rise of non-European powers and the decline of Europe as the centre of global power will also be stressed. *Prerequisite(s): 12h History courses.*

**HIST 3483 Russia: Stalinism to The New Autocracy**
A detailed examination of the rise and fall of the USSR as a superpower and the system that replaced it. Topics addressed include the nature of Soviet power; post-Stalin politics and culture; the degeneration and collapse of the USSR; the legacy of Soviet rule; and the state system that succeeded it. *Prerequisite(s): 12h History courses.*

**HIST 3493 American Women and Social Protest**
This course examines the experience of American women engaged in movements for social and political transformation. Extending from the late 19th to the 21st century, it explores women's participation in the movement for women's emancipation, artistic liberation, racial equality and justice, as well as working-class democracy. Particular attention is paid to the experience of women in the labour movement. *Prerequisite(s): Second-year standing.*

**HIST 3533 Canadian Social and Cultural History**
A seminar course that explores topics in Canadian social and cultural history. Topics may include family formation, working conditions, community development and popular culture. *Prerequisite(s): 30h university courses.*

**HIST 3543 Power and Prestige in Medieval Europe**
What was the nature of power and prestige in medieval Europe? How did these concepts differ? Who held authority and why? Kings, Queens, Popes, Saints, Merchants? Topics covered may include: regional variation; strength of the Church and its representatives; gender differences; knights and monarchs; landscape of power; and material representations of power. *Prerequisite(s): HIST 1533 or HIST 2533.*

**HIST 3553 The American Century: United States and The World**
From an isolationist republic in the nineteenth century, the United States emerged as the dominant power of the twentieth century. From war to anti-terrorism to the media, the United States continues to shape our world. Looking at American wars, counterinsurgency, and diplomacy, this course will examine how that happened and its implications for the present. *Prerequisite(s): 12h History courses.*

**HIST 3563 Modern China: Opium Wars to Tiananmen**
An analysis of the changes China has experienced since the mid-19th century. Emphasis is on the collapse of traditional order and the search for new political, social and cultural forms. *Prerequisite(s): 12h History courses.*

**HIST 3573 Guerrillas and Gunships: Warfare Since 1945**
The nature of warfare has changed dramatically since 1945. Civil wars have largely replaced wars between states. Non-conventional warfare takes precedence over conventional warfare. New technologies have made warfare more destructive. The authority of the state in the conduct of organized violence is being challenged by liberation movements, terrorists and insurgencies. This course explores the reasons behind these developments. *Prerequisite(s): 12h History courses.*

**HIST 3583 Anglo-Saxon England**
A study of the development of England in the early medieval period, from the fall of Rome to the coming of the Normans. Through an examination of the available evidence, both written and archaeological, we will explore topics such as Germanic and Viking invasions, paganism, the flourishing of Christianity, artistic achievement, and kingdom formation. *Prerequisite(s): 12h History courses.*

**HIST 3593 The Vikings and Their World**
The people of Scandinavia, living between 780 and 1100, are often referred to as Vikings, but who were they really? Warriors with horned helmets? Misunderstood farmers and traders? Democratic poets? This course presents an interdisciplinary and balanced view of the Vikings and their culture, society and journeys of exploration, commerce, settlement and conquest. *Prerequisite(s): 12h History courses.*

**HIST 3603 The American Age of Insecurity**
Following a period of unprecedented economic expansion that lasted from the Second World War until the 1970s, the United States entered an era of contraction and crisis that continues to the present. Using film, literature, music, and the latest scholarship, this course will explore the American experience of uncertainty and its relationship to the wider world. *No prerequisite.*

**HIST 3613 Canadian Immigration History**
From first contact, Canada has been peopled by diverse groups of newcomers whose expectations of their new land were often at odds with their settlement experience. This course looks at a variety of immigrant groups, examining their efforts to settle here, and ways 'Canadian' society and culture were transformed by their presence. *Prerequisite(s): 12h History courses and third-year standing.*

**HIST 3623 Cold War Canada: At Home in Suburbia**
This course will explore the domestic experience of Canadians during the Cold War period, and the political, social, gender, and sexual history of post-war Canadian society. Topics include the baby boom, suburban development, ethnic diversity, changes in family relationships and sexual attitudes, youth culture and mass media. *Prerequisite(s): 12h History courses and third-year standing.*

**HIST 3643 History of European Men, Masculinity and Gender from The Middle Ages to 1800**
An investigation of how masculinity and gender have shaped European society. A consideration of what is meant to be a man and to what extent the idea of masculinity changed in European history. An examination of topics such as sexuality, honours, warfare, education, religion, household and court life and local government. *Prerequisite(s): 12h History courses.*

**HIST 3653 America and the 1960s: History and Legacy**
No other decade has seen as fundamental a transformation of American society as the 1960s. In this period alone, Americans witnessed the end of legal segregation, the beginning of a devastating war in Vietnam, and a successful lunar landing. Students will explore this period and consider the way in which memories of the 1960s influence the United States today. *Prerequisite(s): 12h History courses.*

**HIST 3663 Law and Punishment in Canada Before 1900**
This seminar course explores laws and punishments in Canada prior to the creation of a modern criminal code. Though civil law is considered, readings and discussions will focus on criminal law as it was understood and practiced by Canada's First Nations, the British and French Empires, and the young nation of Canada. *Prerequisite(s): 30h university courses.*

**HIST 3673 Canadian Working-Class Culture**
Seminar course on Canadian working-class culture from 1830 to 1980. Topics may include race, gender, sexuality, art, food and drink and rituals. *Prerequisite(s): 30h university courses.*

**HIST 3683 History of Religion in Canada**
Topics include the development of religious denominations, the impact of religion on social concepts, the issue of church-state relations, the role of religion in educational development, and the influence of religious pluralism on Canadian society. *Prerequisite(s): 12h History courses including HIST 2773 or HIST 2783.*

**HIST 3693 Special Topics**
See department for details.

**HIST 3703 Medieval Women**
A study of medieval women through textual evidence and material culture. Focusing on Western Europe and the Mediterranean from c.400-1500, this course explores ideas about women's roles in society and delves into women's lived experiences. *Prerequisite(s): HIST 1533, HIST 2533 or permission of the instructor.*

**HIST 3713 Medieval Europe Through Material Culture**
Learn the history of medieval Europe through art, architecture and archaeology. Study culture through manuscript illumination, metal-working, stained glass, and sculpture; secular and ecclesiastical architecture; settlement, burial and landscape archaeology. Topics may include cross-cultural contacts, regional variation, stylistic changes, social structure, religions, preservation and conservation. *Prerequisite(s): HIST 2533 or HIST 3543.*

**HIST 3723 The Renaissance**
This course examines the dramatic period of the Renaissance in Europe (ca. 1350-1650). Focus is given to artistic and literary innovations, religious complexities, colonialism and imperialism, science and medicine. The course examines social history, urban history, gender history, and popular culture and offers a global context emphasizing Europe's global interactions during the pivotal centuries of the early modern period. *Prerequisite(s): 12h History courses.*

**HIST 3733 History of Museums and Collecting**
This course will explore the history of museums and collecting from a global perspective, focusing on the following core questions: Why were museums created? How do they function in society today? What are some challenges facing museums? Topics may include: national identity, architecture, repatriation, ethics of collecting and display, the public and education. *Prerequisite(s): 12h History courses.*

**HIST 3743 Oceans & Empires – North Pacific**
A study of imperialism in Manchuria, Korea, Japan, Siberia, Alaska, and elsewhere in the North Pacific. The central theme is the convergence of peoples, cultures, and empires between the sixteenth and eighteenth centuries. Topics include Europeans in Northeast Asia, Russian development of Siberia, Japanese colonialism, and US western expansion by land and sea. *Prerequisite(s): 12h History courses.*

**HIST 3763 Revolutions in the Middle East**
Exploring historical and theoretical interpretations of revolution, the course investigates state legitimacy, class, and economic causes, and participant agency through ideologies, movements, and networks. Based on historic examples, an important component of the course will involve counter-revolutionary moves, coups, and regime restoration. Examples will include Turkey, Iran, Iraq, Egypt, and Syria from the early twentieth to the twenty-first century.

**HIST 3773 Gender in Early Modern Europe**
This course examines histories of gender, sex, and sexuality in early modern Europe and European global encounters (1400-1700). The course emphasizes an intersectional approach, considering issues of gender, class, and race. Focus is given to histories of femininities, masculinities, and queerness while also emphasizing topics such as sexuality, colonialism, labour, religion, embodiment, and health. *Prerequisite(s): 12h History courses or permission of the instructor.*

**HIST 3783 Forensic Archaeology Lab**
The lab component will examine which artifacts – retrieved in the field for HIST 2663 – are deemed as probative (directly related to the locating and identification of human remains) and which should be dismissed. Information collected from the site by the forensic archaeologist will be used by the forensic anthropologist in the lab potentially to match an identity to the remains. *Prerequisite(s): HIST 2663 or permission of the instructor.*

**HIST 3823 Global History of Communism**
This course surveys the history of communism from its origins in revolutionary France through the emergence of classical Marxism, to the Russian and Chinese revolutions and the spread of communism across one third of the globe's population on four continents. The history of communism as an idea will be considered alongside the reality of life for millions under Communism. *Prerequisite: 12h History*

*courses.*

**HIST 3833 Canada and the Wars**
This seminar course examines Canadian participation in the two World Wars in the 20th century. Though some attention is paid to military campaigns, the focus is on the wars' effects on Canadians. Readings and discussions will cover shifting gender roles, race and ethnicity, domestic politics, the wartime economy, civil disturbances, combat experiences, and commemoration. *Prerequisite(s): 30h of university courses.*

**HIST 3853 The Turbulent Era in America: The Great Depression and the Fight Against Fascism**
The Great Depression represented the greatest challenge the US faced in the 20th century. This was both a domestic and an international crisis, one which produced progressive as well as reactionary movements for social and political change. Using an international lens, this course will explore the American response to the crisis of economic collapse and the rise of right-wing extremism. *Prerequisite(s): Second-year standing or permission of the instructor.*

**HIST 4023 Honours Seminar**
This course will help prepare students for writing an Honours Thesis. Students will explore the process of writing a thesis, from initial idea, through creating proposals, and doing research and writing on this scale. Other topics may include grant applications, conferences, publishing, graduate programs, and careers in the field. Evaluation is on a Pass/Fail basis.

**HIST 407T Honours Thesis 1**
The thesis is the most important component of the honours program. It provides the student with the opportunity to contribute to historical knowledge through original research. *Prerequisite(s): Students must have permission of Thesis Supervisor and Department to do a History Thesis.*

**HIST 408T Honours Thesis 2**
The thesis is the most important component of the honours program. It provides the student with the opportunity to contribute to historical knowledge through original research. *Prerequisite(s): HIST 407T.*

**Special Periods**
In these courses a limited field is chosen for intensive study. At least one survey course in the chosen field is a prerequisite. All 4000-level seminars are normally open only to Honours students in History and History majors with a minimum GPA of 3.00.

**HIST 4113 Topics: Europe to 1815**

**HIST 4173 Topics: Asian History**

**HIST 4213 Topics: Europe Since 1815**

**HIST 4223 Topics: Global History**

**HIST 4233 Special Topics**

**HIST 4313 Topics: Colonial America**

**HIST 4323 Topics: American History**

**HIST 4343 Topics: Canadian History**

**HIST 4903 Historiography**

## Interdisciplinary Studies

**IDST 1103 Hypermedia Theory and Practice**
In this course, students will be introduced to the history behind and the theories that underlie networked communication and hypertextual practice. Students can expect to study the history of the internet and its corollary technologies, theories of typography, colour, and image, and to employ what they learn in practical applications.

**IDST 1106 Hypermedia in the Humanities**
Students draw upon a variety of digital resources to create HTML projects incorporating many different media. In addition to classes taught by members of the departments of English, History & Classics, and Philosophy, students will receive instruction in Information Literacy from Faculty Librarians, and instruction in the use of applicable software.

**IDST 1113 Peoples and Cultures of Asia 1**
An introduction to Asia in the modern era from geopolitical, religious, historical, social and cultural perspectives. It seeks to understand the ways of thinking found in South, Southeast and East Asia, the basic role of tradition in society, and the current challenges that confront this half of the world. May be offered for major credit in History.

**IDST 1123 Peoples and Cultures of Asia 2**
An introduction to Asia in the modern era from geopolitical, religious, historical, social and cultural perspectives. It seeks to understand the ways of thinking found in South, Southeast and East Asia, the basic role of tradition in society, and the current challenges that confront this half of the world. May be offered for major credit in History.

**IDST 1213 The African Canadian Experience: Past and Present**
Spanning 400 years of the African presence in Canada, this course explores how African-descended peoples have resisted slavery and racial oppression, and the political, social, economic, gender, class and other factors that have influenced their experience. Through lectures, field trips and hands-on workshops, students learn how African Canadians have contributed to the building of this nation, and the global diaspora. *Cross-coded with HIST 1913. Antirequisite(s): Credit can be obtained for only one of IDST 1213 or HIST 1913.*

**IDST 1223 The Indigenous Experience: Past and Present**
With the advisory participation of the Black-Indigenous Community Education Initiative (BICE), this course surveys the aboriginal experience across Canada from pre-contact to contemporary times. Special emphasis is placed on particular aspects of the experience of the Mi'kmaq and Maliseet First Nations.

**IDST 1503 Popular Culture and You**
A transdisciplinary team-taught course designed to encourage critical thinking about popular culture, society and the role of the individual, focusing on the representation of race, gender, and sexuality in the popular media of music, film, literature (including graphic novels) and video games. This course may be counted as a 3h elective credit in Music.

**IDST 1603 Human and Environmental Diversity**
A transdisciplinary team-taught course designed to introduce students to the global, national and regional importance of interrelations between human and environmental diversity. Students will consider issues such as social and environmental justice, challenges to biodiversity and cultural diversity, practical options to preserve, deepen and expand human and environmental diversity, as involving a wide range of factors, from geography to genetics. This course may be counted as a 3h elective credit in Sociology or Biology.

**IDST 1703 A Guided Tour of Our Universe**
A transdisciplinary team-taught course designed to help students develop a scientific view of the universe as the place we live in. Students will study the night sky, evolution of scientific methods, influence of astronomy on popular culture, the precondition for life, the structure and fate of the universe, and examine its historical and fictive depiction in literature and popular media. This course may be counted as a 3h elective credit in Physics or Recreation Management or Kinesiology. *Antirequisite(s): Credit can be obtained for only one of IDST 1703 or PHYS 1513.*

**IDST 1513 Self-Identification: Narrative, Play and Performance**
A transdisciplinary team-taught course designed to recognize reading, gaming and acting as activities that can be used to construct, reflect, and interrogate our individual, communal and cultural selves. Students will read and reflect on written narratives, design and play through digital narratives and gamespaces, and explore the possibilities and consequences of role-playing and live performance. This course may be counted as a 3h elective credit in English or Recreation Management or Kinesiology.

**IDST 1613 Perspectives on Climate Change**
A transdisciplinary team-taught course designed to examine from the perspectives of science, economy, culture, and community, the dimensions of climate change as a global issue: its causes, potential impacts, ways to mitigate, and ways to adapt. Students will learn the science behind climate change, the economics of tackling it, and the potential for positive outcomes by managing it properly. This course may be counted as a 3h elective credit in Business or Geology.

**IDST 1713 From the Trojan War to the War on Terror: The Motives and Ethics of War**
A transdisciplinary team-taught course designed to engage students in an investigation of the motives and ethics of war from historical, biological, and psychological perspectives, using case studies to develop a template of the motives that lead to war and to formulate a set of ethical principles that should govern and prevent war. Sources range from ancient Greek epic to modern film documentaries. This course may be counted as a 3h elective or major credit in Classics or 3h elective credit in Biology.

**IDST 2063 World Music**
A survey of folk music from around the world involving basic analysis of musical sounds in their social context. Musical analysis will be conducted primarily on an aural basis. Previous knowledge of musical theory or practice is not required. May be offered for credit in Music.

**IDST 2213/2223 Peace Studies**
These courses aim to give students a better general understanding of the dynamics of conflict and peace. They attempt to sensitize students to the different dimensions of conflict and peace, of their causes and effects, and of the obstacles and opportunities for meaningful change in the contemporary world. These courses may be taken for Political Science credit.

**IDST 2253 Organized Labour in Canada**
A social history approach to the origins and development of the Canadian labour movement emphasizing the involvement of labour in social and political transformation. A primary focus is on the social history of organized labour in Nova Scotia. This course may be offered for major credit in sociology. *Prerequisite(s): Second-year standing.*

**IDST 2453 Epic Tradition 2**
A study of how the epic tradition is deployed in support of and in the context of Reformation Christianity, the rise of national identities, and the rise of individualism. May be offered for major credit in English.

**IDST 2706 Interdisciplinary Enterprise Project**
This course provides students the opportunity to examine entrepreneurial behaviour from a theoretical and practical perspective through situated learning. Teams of students from a variety of disciplines will undertake a project requiring risk taking, creativity, decision-making/problem solving, team work, experiential learning and project evaluation. These experiences will be considered and reflected upon in relation to the theoretical underpinnings appropriate to the nature of the project. This course is administered by a committee comprised of faculty members from differing disciplines. *Prerequisite(s): Permission of the committee.*

**IDST 2813 Civilization in South Asia 1**
The unique spiritual and cultural resources of India and their impact on South Asian history, philosophy, art and social structures from the Vedic period to the beginning of the Common Era. Specific attention is paid to the development of a traditional Indian world-view based on Hindu, Buddhist and Jain teachings. May be offered for major credit in History.

**IDST 2823 Civilization in South Asia 2**
The great flowering of Hindu Indian civilization associated with the first seven centuries of the Common Era was radically challenged with the introduction of Islam and the colonial era. Focus is on the Islamic contribution to Indian civilization, the impact of the British period and the formation of Pakistan, Sri Lanka and Bangladesh in post- colonial South Asia. May be offered for major credit in History.

**IDST 3103 Environmental Law**
An historical review of property law concepts and an examination of the legal principles associated with environmental law, including a review of the rights, obligations, claims, defences and remedies of conflicting environmental interests. May be offered for major credit in political science. *Prerequisite(s): Third-year standing.*

**IDST 3123 Family Law**
A study of the family in Canadian society from the legal perspective. Topics covered include children and the law, custodial issues, divorce and separation, family property, family violence, protection for the elderly, reproduction and the law, and an examination of the family court system and current trends in family law. May be offered for major credit in political science and sociology. *Prerequisite(s): Third-year standing.*

**IDST 3213 Sustainable Nova Scotia**
Through experiential learning, this course explores the global issues of sustainability through a local focus on Nova Scotia. Students and professors from across the university work together on local projects that address complex environmental, economic, social, and political issues. Students enrol in the discipline of their choice (within class size limit), and will be assigned to work on one project. *Prerequisite(s): Third or fourth-year standing.*

**IDST 3423 Nineteenth and Twentieth-Century Comparative Literature**
An introduction to the study of comparative literature, with an emphasis on nineteenth and early-twentieth-century European prose and poetry. Movements covered may include realism, naturalism, symbolism, decadence, and/or modernism. Taught in English. Students wishing to count this course towards a major in French or German will be required to write assignments in the language in which they major.

**IDST 3463 Contemporary Perspectives on French, German and Spanish Literatures and Cultures**
A multi-disciplinary course to offer students a basic knowledge of literary and cultural periods/events of universal importance in these three target languages. The course will be offered in English. Students wishing to have this course count towards a major degree in Languages and Literatures will be required to write their assignments and essays in the language in which they major.

**IDST 3613 Health and Wellness in Nova Scotia**
Professors from across the campus lead students through analyses of the complex global issues of health and wellness, while drawing substantially on a local, multidisciplinary focus on the state of health and wellness of Nova Scotians. Lectures featuring professors and other regional experts are combined with small group projects focused on current health and wellness issues, to present the complex physical, social-psychological, spiritual, economic, educational, environmental and political issues associated with holistic health and wellness.

**IDST 3473 Introduction to Contemporary French, German and Spanish Film**
A multi-disciplinary course covering developments in French, German and Spanish film as well as the theories shaping them, with a focus on literary adaptations. The course will be offered in English. Students wishing to count this course towards a major in a language will be required to write their assignments and essays in the language of that major.

**IDST 407T Honours Thesis 1**

**IDST 408T Honours Thesis 2**
*Prerequisite(s): IDST 407T.*

**IDST 4186 Peacekeeping: Critical Perspectives**
This course examines all the elements of modern peacekeeping from consolidating security to ensuring good governance and

promoting economic rehabilitation. It also looks at the major players involved on both the military and civilian sides including NGOs and presents a series of case studies of peacekeeping missions. May be offered for credit in Political Science.

## Kinesiology

**KINE 1013 Foundations**
This course is designed to provide students with an understanding of the depth and breadth of the field of Kinesiology and its sub-disciplines, and provides foundational knowledge of kinesiology, sport and physical activity. *Prerequisite(s): BKIN students only.*

**KINE 1100 First Aid and CPR**
Intermediate CSA First Aid CPR AED Level C or an approved equivalent must be completed prior to the second year of study. Students must provide a copy of the valid certification to the school by April of their first year in the program. *Prerequisite(s): BKIN students only.*

**KINE 1113 Research Methods in Kinesiology**
An overview of the role of research, various research themes and methodologies in kinesiology. Various applications of research findings will be examined. *Prerequisite(s): BKIN students only.*

**KINE 1213 Growth and Motor Development**
A study of the sequential changes and characteristics of physical growth and motor development related to physical activity. Attention will focus on sequential motor patterns, individual differences across the lifespan; factors affecting and measurement of physical growth and motor development. (1.5h lab). *Prerequisite(s): BKIN students only. Corequisite(s): KINE 1210L.*

**KINE 1243 Historical Aspects of Physical Activity and Sport in Canada**
An examination of the place of physical activity and sport in Canadian history. *Prerequisite(s): BKIN students only.*

**KINE 1333 Care and Prevention of Athletic Injuries**
An introduction to the prevention and recognition of injuries from accidents in athletic activities. Analysis of the incidence of these athletic injuries, assessment techniques, support methods and medicolegal implications are discussed. Laboratory work includes the injury evaluation procedures, basic taping and therapy methods. (1.5h lab biweekly) *Prerequisite(s): BKIN students only, KINE 1413; Antirequisite(s): Credit can be obtained for only one of KINE 1333 or KINE 2023. Corequisite(s): KINE 1330L*

**KINE 1413 Human Anatomy 1**
This course examines the structures of the human body from cell to systems, with a particular emphasis on those responsible for movement. The musculoskeletal structures, including bones, joints and muscles are emphasized. The nervous, cardiovascular and respiratory systems are also introduced. (2h lab) *Prerequisite(s): BKIN students only. Corequisite(s): KINE 1410L.*

**KINE 1993 Physically Active Living**
An introductory-level course covering basic concepts related to exercise, fitness, and health. Will include exercise myths, risks, benefits and choices as related to physically active lifestyles and the development of personal wellness. This course cannot be counted as credit toward the BKIN degree. *Antirequisite(s): Credit can be obtained for only one of KINE 1993 or KINE 2293.*

**KINE 2003 Adapted Physical Activity**
Students will gain an understanding of theory and practice in the field of adapted physical activity. Students will develop skills to design, implement, and evaluate physical activity participation for individuals of varying ages and abilities across physical activity environments. Practicum in the S.M.I.L.E program is required. *Prerequisite(s): BKIN students only, second-year standing.*

**KINE 2033 Biomechanics 1**
An introduction to the biomechanics of human movement, including kinematics and kinetics of the musculoskeletal system and mechanics of muscle contraction. Practical examples from sport, rehabilitation and the workplace will be discussed. The lab component will demonstrate these concepts and introduce methods used to quantify the mechanical aspect of human motion. (3h lab). *Prerequisite(s): BKIN students only, KINE 1213 and KINE 1413. Corequisite(s): KINE 2030L.*

**KINE 2133 Coaching**
An examination of the principles of coaching as they relate to the overall development of the athlete. Course content is taken directly from the NCCP Introduction to Competition manuals, although the breadth of material covered will surpass the expectations set by the NCCP. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 2253 Sociological Aspects of Physical Activity and Sport**
This course is designed to provide a sound introduction to the sociology of sport and physical activity. Students are encouraged to question and think critically about sport and physical activity as part of society from both individual and group perspectives. *Prerequisite(s): BKIN students only, second-year standing.*

**KINE 2413 Applied Human Physiology 1**
An introduction to human physiology for kinesiology students. This course covers basic physiological concepts including cell physiology and focuses primarily on neuromuscular physiology, with an introduction to metabolism, gastrointestinal, integument, and endocrine physiology. Homeostasis and sensory control of movement are explored. Anatomical and physiological changes over the lifespan will be introduced. (1.5h lab) *Prerequisite(s): BKIN students only, KINE 1100, KINE 1413 and BIOL 1863. Antirequisite(s): Credit can be obtained for only one of KINE 2413 or BIOL 2813. Corequisite(s): KINE 2410L.*

**KINE 2423 Applied Human Physiology 2**
An introduction to human physiology for kinesiology students. This course covers primarily cardiovascular and respiratory physiology with introduction to support systems (acid-base regulation, renal, gastrointestinal, immune and reproductive systems). Anatomical and physiological changes over the lifespan will also be covered. (1.5h lab) *Prerequisite(s): BKIN students only, KINE 2413. Antirequisite(s): Credit can be obtained for only one of KINE 2423 or BIOL 2823. Corequisite(s): KINE 2420L.*

**KINE 2433 Psychological Aspects of Physical Activity and Sport**
An examination of the primary psychological aspects important in understanding physical activity participation and sport performance. This course will focus on the role of theory in effectively promoting physical activity and exercise. The course will examine psychological factors that affect and are affected by participation in physical activity and sport, social influences on participation, as well as psychological techniques to enhance participation. *Prerequisite(s): BKIN students only.*

**KINE 2483 Comprehensive School Health**
Student learning and health are improved when schools and communities work together using an organized, united, and holistic approach which includes: social and physical environments; teaching and learning; policy; and partnerships and services working together. This course will focus on understanding these relationships to foster an ideal learning environment and healthy students. *Prerequisite(s): BKIN/BKIH students only, second-year standing (25h or more completed).*

**KINE 2493 Health Promotion and Wellness**
Students will be exposed to a wide range of health and wellness issues. Students will examine their attitudes toward these issues with an emphasis on self-responsibility, and will be prepared to design and implement health promotion programs. *Prerequisites: BKIN majors and BSN (NUTR) majors only; second-year standing.*

**KINE 2503 Philosophy and Martial Arts**
Philosophical inquiry into martial arts, with a focus on issues of defining such practices, knowledge and embodiment, aesthetics, and ethics. Also to be discussed are differences between Asian and Western views of martial arts, the relationship between martial arts and combat sports, and representations of martial arts in film. *Prerequisite(s): BKIN/BKIH students only, second-year standing or higher.*

**KINE 2993 Personal Health**
This course will provide students with an overview of personal health. Broadly, we will examine what it means to be healthy within various domains (i.e., exercise, sleep, etc.) and how they tie together to create overall wellness. We will also explore how we can measure health and some special considerations (i.e., athletics, across the lifespan, etc.). This course cannot be counted as credit toward the BKIN degree. *Prerequisite(s): Non-KINE majors only, second-year standing.*

**KINE 3013 Exercise Physiology**
This course surveys the physiological events associated with exercise, training and detraining; the neuromuscular, cardiovascular and respiratory systems are considered. Through lectures and problem-based learning activities, topics including thermal stress, altitude, aging, pregnancy, obesity, microgravity, ergogenic aids, and exercise as medicine are explored. (1.5h lab). *Prerequisite(s): BKIN/BKIH students only, KINE 1100, KINE 2423. Corequisite(s): KINE 3010L.*

**KINE 3053 Human Anatomy 2**
This advanced course in human gross anatomy will be clinically oriented and will be focused on systemic anatomy. Systems covered will be musculoskeletal, nervous, endocrine, respiratory, urinary, digestive, reproductive and lymphatic. Structure and function relationships will be investigated within each system. Clinical cases and experiential learning will be integrated throughout the course. (1.5h lab). *Prerequisite(s): BKIN/BKIH students only and KINE 1413. Antirequisite(s): KINE 4813. Corequisite(s): KINE 3050L.*

**KINE 3063 Athletic Therapy Practicum 1**
This course will enhance skills in emergency injury assessment, emergency injury management, general medical conditions, orthopedic taping, splinting, and wound management. Field scenarios and evidence-informed practice will be a focus. Students will also complete designated blocks of supervised field and clinical experiences, with approved field and clinical agencies. (1.5h lab). *Prerequisite(s): BKIN/BKIH (AT Option) students only; KINE 1333.*

**KINE 3073 Athletic Therapy Practicum 2**
This course will continue to enhance skills in emergency injury assessment, emergency injury management, general medical conditions, nutrition, adapted physical activity, orthopedic taping, splinting, and wound management. Field scenarios and evidence-informed practice will be a focus. Students will also complete designated blocks of supervised field and clinical experiences, with approved field and clinical agencies. (1.5h lab). *Prerequisite(s): BKIN/BKIH (AT Option) students only; KINE 1333; KINE 3063.*

**KINE 3100 Professional Development**
Professional Development is divided into two units. The “A” unit includes one 6-hour minimum conference and the completion of a two-page, single-sided reflection. The “B” unit includes two 1-hour seminars with the completion of a half-page, single-sided reflection for both seminars. Students are required to complete “A” and “B”. Permission from the School must be obtained prior to attendance. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 3123 School, Culture & Leadership in Physical Education**
This course is designed for future Physical Education teachers and focuses on the roles that culture and leadership play in engaging students to become active. *Prerequisite(s): BKIN/BKIH students only, third-year standing (55h or more completed).*

**KINE 3133 Leadership and Team Building**
This course examines selected theories of leadership and principles of team building. Students have an opportunity to consider the application of leadership theories and hence to develop an understanding of themselves as leaders. *Prerequisite(s): BKIN/BKIH students only, third-year standing.*

**KINE 3143 Introduction to Teaching Physical Education**
An overview of effective teaching styles, management skills and content required to present kinesiological concepts within a school setting. Micro teaching settings will be an integral part of this course. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 3153 The Development of Sport Expertise**
This course provides an in-depth examination of the psychological and social factors underpinning the development of sport expertise. Drawing upon peer-reviewed research and real-life examples, students will develop a holistic understanding of athlete development, from an individual's first initiation into organized sport in childhood to elite and/or professional levels of competition. *Prerequisite(s): BKIN/BKIH students only, KINE 2433, third-year standing or higher.*

**KINE 3163 Applied Research Methods in Kinesiology**
The nature of scientific inquiry, research methods applied to the study of physical activity and sport, data analysis and research report writing. *Prerequisite(s): BKIN/BKIH students only and KINE 1113.*

**KINE 3173 Sport and Law**
This course will explore various aspects of law in the sport context. Students will be introduced to the many legal issues they may face as professional, or volunteer, teachers, coaches, managers, board members or administrators. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 3183 Developing Leadership**
An investigation into transformational leadership practice and how to make an impact within our own community. This course explores the different components of great leadership and will give the students an opportunity to assess their own leadership. Students will create a leadership improvement plan and develop an innovative leadership project to make a positive impact on themselves and society. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 3193 Para-Sport**
Para Sports is an introduction into the world of Paralympic Sports. Students will learn about the Paralympic history and movement. Students will explore different para sports. The students will learn about the differences in Physiology, Biomechanics and the Psychology of the Paralympic Athletes. Students will also learn about performance testing for Para Athletes such as exercise-testing, strength-testing and nutritional-assessments. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 3213 Motor Learning**
An introductory examination of motor skill acquisition; focus on the variables of practice, theories of skill acquisition, feedback, information processing, retention, and transfer, which influence the instruction, learning and performance of motor skills in sport and physical activity programs. (1.5h lab). *Prerequisite(s): BKIN/BKIH students only, and third-year standing. Corequisite(s): KINE 3210L.*

**KINE 3323 Therapeutic Exercise: Foundations and Techniques**
The purpose of this course is to develop competencies in therapeutic exercise. Students will learn about foundational theory and therapeutic applications related to various orthopedic injuries and conditions including: spinal stabilization, movement impairments, soft tissue and joint mobilization, and proprioceptive/vestibular systems. *Prerequisite(s): BKIN/BKIH students only, KINE 1333.*

**KINE 3343 Fitness Programming**
This course explores key topics human health and fitness. Fitness and health-related behaviours and current trends in fitness assessment and programming will be examined. Students will learn fitness assessment skills and basic exercise programming to improve health outcomes for a variety of populations. Upon completion, students can work toward certification (Certified Personal Trainer) through the Canadian Society of Exercise Physiology. (1.5h lab). *Prerequisite(s): BKIN/BKIH students only and KINE 2423. Corequisite(s): KINE 3340L.*

**KINE 3363 Philosophy of Sport**
This course will introduce students to the issues surrounding physical activity, sport and physical education from a philosophical perspective with an emphasis on the ethical considerations involved. *Prerequisite(s): BKIN/BKIH students only, and third-year standing.*

**KINE 3373 Advanced Adapted Physical Activity**
This course builds from the theories and concepts discussed in KINE 2003. Students will gain an advanced understanding of adapted physical activity theories and assessments. Students will build the hands-on instructional and leadership skills to facilitate adapted physical activity programs and assessments for people with varied abilities across age groups and environments. Practicum in the S.M.I.L.E. program is required. *Prerequisite(s): BKIN/BKIH students only and KINE 2003.*

**KINE 3383 Aesthetics of Sport and Dance**
Philosophical inquiry into the aesthetics of movement in sport and dance. Topics to be discussed include the contextual nature of movement aesthetics, the problem of subjectivity in judging movement quality, and debates about possible intersections between the domains of sport and art. *Prerequisite(s): BKIN/BKIH students only, second-year standing or higher.*

**KINE 3393 Physiological Assessment**
In this course, students will learn advanced exercise testing protocols for aerobic fitness, musculoskeletal fitness, flexibility, and body composition. Field and laboratory protocols for apparently healthy, athletic, and clinical populations across sport, clinical, and occupational settings will be covered. The course provides the basis for competencies associated with the Clinical Exercise Physiologist certification of the Canadian Society of Exercise Physiology. (3h lab). *Prerequisite(s): BKIN/BKIH students only and KINE 3343. Corequisite(s): KINE 3390L.*

**KINE 3400 First Responder**
For students accepted to the Bachelor of Kinesiology (Athletic Therapy Option), a recognized First Responder course must be completed prior to the third year of study. Students must provide valid certification to the School of Kinesiology. *Prerequisite(s): BKIN/BKIH (AT Option) students only, KINE 1100.*

**KINE 3413 Assessment and Rehabilitation of the Lower Extremity**
This course involves general orthopedic assessment and rehabilitation knowledge, as well as skill development for managing athletic injuries within the lower extremity. Specific joints/regions to be covered are: knee, ankle, and foot. Assessment and rehabilitation techniques utilized by Certified Athletic Therapists will be taught in this course. (1h lab). *Prerequisite(s): BKIN/BKIH (AT Option) students only and KINE 1100. Corequisite(s): KINE 3410L.*

**KINE 3423 Assessment and Rehabilitation of the Upper Extremity**
This course involves assessment and rehabilitation knowledge, as well as skill development for managing athletic injuries within the upper extremity. Specific joints/regions to be covered are: shoulder, elbow, wrist, and hand. Assessment and rehabilitation techniques utilized by Certified Athletic Therapists will be taught in this course. (1h lab). *Prerequisite(s): BKIN/BKIH (AT Option) students only, KINE 3413, with a minimum grade of B. Corequisite(s): KINE 3420L.*

**KINE 3453 Positive Youth Development in Sport and Physical Activity**
This course will explore psychosocial research on positive youth development in sport and physical activity contexts. Through the review of theoretical and empirical literature, students will develop an in-depth understanding of how organized sport and physical activity can be used as a vehicle to facilitate the development of life skills and positive psychosocial outcomes. *Prerequisite(s): BKIN/BKIH students only, KINE 2433 and third-year standing or higher.*

**KINE 3533 Advanced Coaching Methods**
Explores in more depth the issues raised in KINE 2133, and in addition, focuses on concepts related to planning and implementing annual training programs for high performance athletes. Emphasis is on the coaching tasks related to mental preparation, physical preparation, and technical-tactical development for advanced athletes. *Prerequisite(s): BKIN/BKIH students only and KINE 2133.*

**KINE 3573 Perceptual-Motor Development**
An in-depth study of perceptual and motor development in young children through examination of research and theory related to sensory-motor integration, and through a practical lab experience. Students will examine the behavioral signs, neurological bases and assessment of sensory integration dysfunction, as well as intervention activities to promote sensory integration and perceptual-motor development. (2h lab). *Prerequisite(s): BKIN/BKIH students only. Corequisite(s): KINE 3570L.*

**KINE 3593 Physical Activity for All**
Designed for future Physical Education teachers, this course develops pedagogical skills that will enable PE students of all cultures, orientations, and abilities the opportunity to be active within group settings. The course explores how to make physical education more inclusive so that future PE students can showcase their culture in class and through activities. *Prerequisite(s): BKIN/BKIH students only and third-year standing (55h or more completed).*

**KINE 3683 Applied Sport Psychology**
An examination of selected topics in human behaviour related to sport and sport participation. Areas of emphasis include sport personality, anxiety control and relaxation, mental imagery and visualization, competition preparation, goal setting, and attitudes and sport behaviour. *Prerequisite(s): BKIN/BKIH Students only and KINE 2433.*

**KINE 3693 Health Behaviour Change**
This course draws on peer-reviewed research, real-world examples as well as commentary found in popular media to get students to think critically about the forces that shape health behaviour and engage in activities to help them understand how they can be effective in promoting health behaviour change. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 3853 Wellness and Aging**
This course will examine aging from a wellness perspective – while the physical and physiological aspects of aging will predominate, social, emotional, spiritual and cultural aspects of aging will also be considered. The changes that occur as a function of the aging process will be the central focus of the course. *Prerequisite(s): BKIN/BKIH students only, third-year standing.*

**KINE 3883 Directed Readings in Kinesiology**
Readings and discussions in a selected area under the direction of a faculty member. Intended primarily for students in third and fourth year. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 4003 Ethical Issues in Sport & Physical Activity**
Ethical issues that arise in sport, physical activity and physical education will be investigated. A practical or applied rather than theoretical approach will be undertaken in the investigation of the issues. *Prerequisite(s): BKIN/BKIH students only, fourth-year standing.*

**KINE 4013 Training Methods**
This course examines physiological aspects of performance and advanced training methods used to enhance endurance, strength, power, speed and flexibility. General planning theory, field-based performance testing, ergogenic aids, banned substances and methods that facilitate recovery, function and performance in different contexts are also covered. Information can be applied to advanced fitness certifications. (1.5h lab). *Prerequisite(s): BKIN/BKIH students only and KINE 3013. Corequisite(s): KINE 4010L.*

**KINE 4033 Coaching Practicum 1**
Each student works as an assistant to, and will be supervised by, a mentor coach. *Prerequisite(s): BKIN/BKIH students only and KINE 3533. Corequisite(s): Placement with a mentor coach.*

**KINE 407T Honours Thesis 1**
This course requires the student to propose and carry out a research study under the supervision of a KINE faculty member and submit a thesis in accordance with the KINE format and University Honours Committee regulations. Both the proposal and the thesis must be successfully defended before the thesis supervisor and the KINE Honours Committee of Senate. *Prerequisite(s): BKIH students only. Corequisite(s): KINE 408T.*

**KINE 408T Honours Thesis 2**
This course requires the student to propose and carry out a research study under the supervision of a KINE faculty member and submit a thesis in accordance with the KINE format and University Honours Committee regulations. Both the proposal and the thesis must be successfully defended before the thesis supervisor and the KINE Honours Committee of Senate. *Prerequisite(s): BKIH students only. Corequisite(s): KINE 407T.*

**KINE 4083 Independent Study**
A substantial scholarly study chosen in consultation with a faculty advisor to reflect student interest. Such a study may be based on field, laboratory, or library study. Intended primarily for qualified students with a defined and approved research interest. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 4113 Athletic Therapy Practicum 3**
This course will enhance skills in clinical reasoning, exercise prescription, assessment, and designing comprehensive treatment plans. Clinical scenarios and evidence-informed practice will be a focus. Students will also complete designated blocks of supervised field and clinical experiences, with approved field and clinical agencies. (1.5h lab). *Prerequisite(s): BKIN/BKIH (AT Option) students only; KINE 1333; KINE 3073.*

**KINE 4123 Athletic Therapy Practicum 4**
This course will further enhance skills in clinical reasoning, exercise prescription, and designing comprehensive treatment plans. Medical ethics, cultural understanding, professional issues, and entrepreneurship will also be discussed. Clinical scenarios and evidence-informed practice will be a focus. Students will also complete designated blocks of supervised field and clinical experiences, with approved field and clinical agencies. (1.5h Lab) *Prerequisite(s): BKIN/BKIH (AT Option) students only; KINE 1333; KINE 4113.*

**KINE 4193 Exercise Science Training Practicum**
This course provides students an opportunity to apply course material in exercise and training in practical settings. Students will work in diverse situations weekly with healthy and special populations across the lifespan to develop skills around laboratory fitness testing, developing exercise programs and directing personal training opportunities. Students will also complete self-directed study toward preparation of theoretical and practical competencies. *Prerequisite(s): BKIN/BKIH (ES&T Option) students only and KINE 3343.*

**KINE 4203 Exercise Science Clinical Practicum**
This course provides students an opportunity to apply course material in clinical settings. Students will be expected to work in diverse situations weekly to develop skills around laboratory fitness testing, developing exercise programs and directing personal training opportunities primarily for those with chronic conditions. Students will also complete self-directed study toward preparation of theoretical and practical clinical competencies. *Prerequisite(s): BKIN/BKIH (ES&T Option) students only and KINE 4193.*

**KINE 4213 Biomechanics of Injury and Disease**
This course focuses on sporting injuries and chronic disease from a neuromuscular and biomechanical perspective. Orthopaedic biomechanics will be a central focus with an emphasis on joint replacement and other forms of surgical repair for injuries. Biological and mechanical properties unique to bone, cartilage, ligaments, tendons and muscle will also be introduced. *Prerequisite(s): BKIN/BKIH students only, KINE 2033.*

**KINE 4233 Stress Management**
This course will provide students with the scientific foundations of stress and its effects, and will provide opportunities to reflect on personal stressors through self-study. Strategies to help manage stress will be reviewed. *Prerequisite(s): BKIN/BKIH students only, KINE 2423 and 2433.*

**KINE 4563 Adventure Education**
This course will study and explore the use of adventure for educational purposes. By exploring philosophies, theory and methodology, students will design, deliver and participate in effective adventure education programs. The application of adventure education methodology as a tool for human resource development, curriculum enhancement and leisure satisfaction is examined. *Prerequisite(s): BKIN/BKIH, BCD/BCDH students only, third-year standing.*

**KINE 4573 Biomechanics 2**
Basic principles learned in KINE 2033 will be built on and applied to analyzing human movement problems in the areas of sport, rehabilitation and the work place. Methods in kinematic, kinetic and electromyographical data collection and analysis will be studied. Current topics in the biomechanical literature will be reviewed. (1.5h lab). *Prerequisite(s): BKIN/BKIH students only, and KINE 2033. Corequisite(s): KINE 4570L.*

**KINE 4593 Special Topics in Kinesiology**
In depth study of a selected topic in the field. Designed to enable students to take advantage of a particular expertise of visiting or permanent faculty. *Prerequisite(s): BKIN/BKIH students only.*

**KINE 4633 Senior Seminar**
A capstone course designed to bridge the gap between university study and the workplace or further study. Classes and projects are designed to help you discover your uniqueness: your skills, values, and knowledge. The course aims also to provide information about further education, the profession, and about opportunities for new graduates. *Prerequisite(s): BKIN/BKIH students only, successful completion of all KINE Core courses in the 1000, 2000, and 3000-levels or permission of the School of Kinesiology.*

**KINE 4693 Physical Activity and Chronic Conditions**
The course examines the psychosocial, physiological and pharmacological considerations important to the promotion of physical activity among individuals living with chronic conditions (e.g., cardiac conditions, diabetes, arthritis, spinal cord injury). Course work is primarily student directed. Students are assessed on their ability to integrate information in summarizing the issues important for exercise promotion for each given population. *Prerequisite(s): BKIN/BKIH students only, KINE 2423 and KINE 2433.*

**KINE 4753 Promoting Physical Activity for Youth**
In this course students will examine the scope of physical (in)activity among youth and adolescents, the factors that contribute to youth physical activity, as well as the consequences of physical (in)activity among this population. Further, students will explore ways to best promote physical activity for youth and adolescents. This will be done using a combination of readings and reflection.

**KINE 4763 Introduction to the Canadian Health Care System**
This course introduces students to an overview of the Canadian Health Care System, including history, financing, federalism, and organization of health care in Canada, system issues and reform, regionalization and governance, acute, emergency, and tertiary care, and more. Discover the history and evolution of the health care system in Canada, as well as the current and future issues being faced. *Prerequisite(s): Third-year standing.*

**KINE 4773 S.M.I.L.E. Programming**
This course provides opportunities for students, from all academic disciplines to gain knowledge in the area of S.M.I.L.E. programming. The theoretical and applied aspects of adapted physical activity that directly relate to the S.M.I.L.E. program will be delivered. The topics include assessment of physical literacy, motor development, physical activity program, positive behaviour approach, instructional and activity modifications and leadership.

**KINE 4803 Professional Aspects in Sport Injury Assessment and Care**
Presented from a comprehensive perspective, this course develops students understanding of sport injury mechanisms, orthopedic assessment, general rehabilitation, and professional principles associated within sport. Introductory information will initiate management of each injury or professional situation. The techniques and principles taught in this class are typically used by Certified Athletic Therapists. *Prerequisite(s): BKIN/BKIH students only, KINE 1333 and third-year standing or higher. Students in Athletic Therapy Option cannot receive credit for this course. Antirequisite(s): KINE 3413.*

**KINE 4823 Aging Physiology and Exercise**
This course is concerned with the process of aging as it affects physical activity. Each student will develop a good working knowledge of the role of physical activity on the aging cardiovascular, pulmonary, metabolic and musculoskeletal systems. Students will also develop an understanding of the psychological and socio-economic issues affecting the fitness levels of older adults. *Prerequisite(s): BKIN/BKIH students only, KINE 2423.*

**KINE 4833 Social Determinants of Health**
This course provides a deeper understanding of the social determinants of health specific to Canada but applicable to other countries worldwide. Knowledge of how health is affected by ones' gender, race, presence of a disability, income and employment, education, availability of food and shelter, public policy, social integration, early childhood development, and stress and wellbeing will all be examined. *Prerequisite(s): Third-year or fourth-year standing. CAR (Child Abuse Registry) and CRC (Criminal Record Check) are required for this course.*

**KINE 4843 Assessment and Rehabilitation of the Axial Skeleton and Pelvis**
This course advanced assessment and rehabilitation knowledge, as well as skill development for athletic injuries in the axial skeleton and pelvis. Specific joints/regions to be covered are: cervical spine, thoracic spine, lumbar spine, pelvis, and hip. Assessment and

rehabilitation techniques utilized by Certified Athletic Therapists will be taught in this course. (1h lab). *Prerequisite(s): BKIN/BKIH (AT Option) students only, KINE 3423 with a minimum grade of B. Corequisite(s): KINE 4840L.*

**KINE 4853 Therapeutic Modalities**
This course covers basic foundational knowledge and contemporary usage of therapeutic modalities. Emphasis will be placed on fundamental concepts of cryotherapy, thermotherapy, massage, soft tissue release techniques, mobilizations, traction, ultrasound, and electrical stimulation. Rehabilitation techniques and settings utilized by Certified Athletic Therapists will be taught in this course. *Prerequisite(s): BKIN/BKIH (AT Option) students only and KINE 3423 with a minimum grade of B.*

**KINE 4863 Emergency Conditions**
A theoretical and scenario-based practical application of mock emergency conditions for first responders. Students are provided with knowledge and basic skills used to evaluate athletic injuries and special problems of head, neck, spine, viscera, and other orthopedic joints. Assessment, intervention, primary care treatment, and medical follow-up are all presented for a host of sport related injuries and illnesses. *Prerequisite(s): BKIN/BKIH students only, KINE 1333 and third-year standing or higher. Students in Athletic Therapy Option cannot receive credit for this course. Antirequisite(s): KINE 3413.*

**KINE 4873 Pharmacology for Kinesiology**
This course reviews basic pharmacology principles and focuses on over the counter/prescription medications and natural products commonly used in sport and physical activity. Contraindications and doping principles are also reviewed. Pharmacodynamic and pharmakinetic principles are explored with implications for athletic therapists and exercise physiologists. *Prerequisite(s): BKIN/BKIH students only. KINE 2423.*

**KINE 4893 Disability Sport**
The course provides various aspects of the theory of social constructionism as it relates to disability and sport. It provides an insight into the historical development of disability sport both nationally and internationally, and will identify sport governing bodies responsible for Paralympic, Special Olympics, and other sport movements. It explores in-service delivery of sport models in school and community.

**KINE Activity Courses**
Activity courses are 12 weeks of instruction and bear a credit value of 1.5h.

**Introductory Activity Courses**

**KINE 176D Outdoor Leader 1**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing. Corequisite(s): KINE 276D*

**KINE 177D Orienteering and Geocaching**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing.*

**KINE 178A Zumba**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 180D Intro to Adventure Programming**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing.*

**KINE 181A Hockey**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 181B Yoga**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, at least second-year standing.*

**KINE 181C Sledge Hockey**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, at least second-year standing.*

**KINE 181E Lacrosse**
The focus is on acquiring the basic skills of the sport, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 182A Ringette**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, at least second-year standing.*

**KINE 182B Volleyball**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 184D Introduction to Canoe Tripping**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing.*

**KINE 185A Physical Activities for Children**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 185B Physical Activity for Older Adults**
This practicum course is designed to provide students with hands-on experience working with older adults in an exercise setting as part of the Acadia Active Aging Program. The course will include the theoretical background required to work with older adults who are healthy or who have functional limitations. *Prerequisite(s): BKIN/BKIH students only, third-year standing.*

**KINE 185C Multi-Activity Games**
This course focuses on acquiring knowledge about the rules, tactics, and technical skills of low-organized games and activities. Students will learn how to apply the principles of kinesiology in practice. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 185D Special Topics 1 (Intro to Orienteering, Intro to Snowshoeing, Intro to Sea Kayak, Intro to Winter Camping, Intro to Rock Climbing)**
Designed to enable students to take advantage of a particular expertise of visiting or permanent faculty. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 185E Golf**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, at least second-year standing.*

**KINE 185E Curling**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, at least second-year standing.*

**KINE 185H Kayaking**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing.*

**KINE 187A Aquatics**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 188A Tennis**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 188B Event Management Practicum**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing.*

**KINE 189A Soccer**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 190A Physical Activity for Chronic Conditions**
This course is designed to provide students with hands-on experience working with older adults who have recently experienced a cardiac event, in an exercise setting as part of the Acadia Cardiac Rehab Program. The course will include the theoretical background required to work with adults who have experienced a cardiac event. *Prerequisite(s): BKIN/BKIH students only, third-year standing.*

**KINE 190B Resistance Training**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 190C Agility, Quickness, and Speed**
The focus is on acquiring basic skills in the sport or physical activity, learning the theoretical basis of performance, learning teaching progressions, and acquiring an appreciation of the sport or physical activity. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**Advanced Activity Courses**

**KINE 276D Outdoor Leader 2**
To develop advanced technical and practical skill levels and the theoretical knowledge for coaching the sport or activity. Students require the appropriate introductory activity course as a prerequisite to the advanced activity course *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing. Corequisite(s): KINE 176D*

**KINE 280D Bike Touring**
To develop advanced technical and practical skill levels and the theoretical knowledge for coaching the sport or activity. Students require the appropriate introductory activity course as a prerequisite to the advanced activity course. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing.*

**KINE 280S Special Topics 2 (Advanced Challenge Course Technical Skills, Mountain Bike Touring, Canoe Tripping, Advanced Navigation, Advanced Sea Kayak Tripping, Advanced Rock Climbing, Canoe Design and Construction, Advanced Survival)**
Designed to enable students to take advantage of a particular expertise of visiting or permanent faculty. *Prerequisite(s): BKIN/BKIH students only, second-year standing.*

**KINE 281D Advanced Canoeing**
To develop advanced technical and practical skill levels and the theoretical knowledge for coaching the sport or activity. Students require the appropriate introductory activity course as a prerequisite to the advanced activity course. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing.*

**KINE 282D Advanced Survival**
To develop advanced technical and practical skill levels and the theoretical knowledge for coaching the sport or activity. Students require the appropriate introductory activity course as a prerequisite to the advanced activity course. *Prerequisite(s): BKIN/BKIH and BCD/BCDH students only, second-year standing.*

## Languages

**LANG 1113 Special Topics 1**
This is an introductory language course for students with little or no previous experience. Emphasis will be on developing basic conversational skills as well as linguistic and cultural awareness. The language being taught will vary.

**LANG 1123 Special Topics 2**
A continuation of LANG 1123. This is an introductory language course for students with little or no previous experience. Emphasis will be on developing basic conversational skills as well as linguistic and cultural awareness. The language being taught will vary.

**LANG 3023 Language and the Law**
This course surveys the legal basis for language rights at the international, Canadian and provincial levels. Students will study international declarations and treaties; Official and Indigenous language legislation and case law; and provincial and territorial language regimes. They will consider issues such as territoriality/personality principles, collective/private rights, and linguistic human rights. *Prerequisite(s): LAWS 1003 or LAWS 1013; completion of 60 credit hours. Antirequisite(s): Credit can be obtained for only one of LAWS 3023 or LANG 3023.*

## Latin

**LATI 1103 Elementary Latin I**
This course is an introduction to basic vocabulary and grammar of Classical Latin. This course counts toward the second language requirement.

**LATI 1113 Elementary Latin II**
Continuation of the introduction to Classical Latin. This course counts toward the second language requirement. *Prerequisite(s): LATI 1103.*

**LATI 2013 Intermediate Latin 1**
Readings in Latin prose and poetry; continued study of Latin grammar. *Prerequisite(s): LATI 1113 with a minimum grade of B-. Antirequisite(s): LATI 2006.*

**LATI 2023 Intermediate Latin 2**
Readings in Latin prose and poetry; continued study of Latin grammar. *Prerequisite(s): LATI 2013. Antirequisite(s): LATI 2006.*

**LATI 2693 Special Topics**

**LATI 3103 Augustan Literature**
Selected works by authors of the Augustan age, including Livy, Virgil, Horace and Ovid. *Prerequisite(s): LATI 2023 with a minimum grade of B-.*

**LATI 3133 Latin Prose Composition**
An intensive course in Latin syntax and prose composition. *Prerequisite(s): LATI 2023 with a minimum grade of B-.*

**LATI 3503 Literature of The Late Republic**
Selected works by authors of the Late Republic, including Cicero, Sallust, Lucretius and Catullus. *Prerequisite(s): LATI 2023 with a minimum grade of B-.*

**LATI 3923 Special Topics**
*Special Topics in Latin. Prerequisite(s): LATI 2023 and permission of the instructor.*

**LATI 4006 Literature of The Early Empire**
Authors include Tacitus, Juvenal, and Pliny the Younger.

**LATI 4106 Roman Drama**
Authors include Plaurus and Terence.

**LATI 4206 Readings in Latin**

## Law and Society

**LAWS 1003 Introduction to Law and Society**
This course introduces the relationships between law and Canadian society. Students examine different types of law and legal systems, including Indigenous law, the judicial system, the legal profession, and the institutional, social, and cultural contexts in which laws are made and enforced. Students will engage with debates about citizen rights, the policy-making role of courts, amongst other issues. *Prerequisite(s): This course is open to students who have completed fewer than 60 credit hours, or with permission of instructor. Antirequisite(s): Credit can only be obtained for one of LAWS 1003 or LAWS 1013.*

**LAWS 1013 Introduction to Law and Society for Majors**
Introduces the relationships between law and Canadian society. Students examine different types of law and legal systems, including Indigenous law, the judicial system, the legal profession, and the institutional, social, and cultural contexts in which laws are made and enforced. *Prerequisite(s): This course is restricted to Law and Society majors. Non-majors should register for LAWS 1003. Antirequisite(s): Credit can only be obtained for one of LAWS 1003 or LAWS 1013.*

**LAWS 2003 Theories of Law and Justice**
This course explores the concepts of law and justice, and the relationship between the two in contemporary society. Themes include debates about the nature of law (as a form of social organization), questions about the role of judiciary in democracies, the conceptions of justice relevant to various areas of law, and critical perspectives on traditional theories of law and justice. *Prerequisite(s): LAWS 1003 or LAWS 1013 or permission of the instructor.*

**LAWS 3003 Approaches to Law and Society**
This course will strengthen students' abilities to read and evaluate socio-legal research and analysis. It introduces research and writing methods including analyzing primary and secondary legal sources, qualitative strategies in socio-legal studies, and consideration of the interrelationship between theory, practice, and research. *Prerequisite(s): LAWS 1003 or LAWS 1013.*

**LAWS 3013 Special Topics in Law and Society**
An examination of selected topics in Law and Society. *Prerequisite(s): LAWS 1003 or LAWS 1013.*

**LAWS 3023 Language and the Law**
This course surveys the legal basis for language rights at the international, Canadian and provincial levels. Students will study international declarations and treaties; Official and Indigenous language legislation and case law; and provincial and territorial language regimes. They will

consider issues such as territoriality/personality principles, collective/private rights, and linguistic human rights. *Prerequisite(s): LAWS 1003 or LAWS 1013; completion of 60 credit hours. Antirequisite(s): Credit can be obtained for only one of LAWS 3023 or LANG 3023.*

**LAWS 4003 Issues in Law and Society**
This course explores philosophical, theoretical, social, and legal approaches to understanding the relationship between law and society. Topics will vary each year according to the instructor. *Prerequisite(s): LAWS 1003 or LAWS 1013, LAWS 2003.*

**LAWS 407T Honours Thesis 1**
This is the first of two courses that require the honours student to propose and carry out a research study under the guidance of an approved supervisor and submit a thesis in accordance with the Program Guidelines of the student's degree discipline and in a format approved by the Honours Committee of Senate. *Prerequisite(s): LAWS 1003 or LAWS 1013, LAWS 2003, LAWS 3003. Open only upon permission of thesis supervisor and academic unit. Corequisite(s): LAWS 408T.*

**LAWS 408T Honours Thesis 2**
This is the second of two courses that require the honours student to propose and carry out a research study under the guidance of an approved supervisor and submit a thesis in accordance with the Program Guidelines of the student's degree discipline and in a format approved by the Honours Committee of Senate. *Prerequisite(s): LAWS 1003 or LAWS 1013, LAWS 2003, LAWS 3003. Open only upon permission of thesis supervisor and academic unit. Corequisite(s): LAWS 407T.*

## Mathematics and Statistics

**MATH 0110 Pre-University Mathematics**
Topics from high school mathematics. This non-credit course serves as a prerequisite for courses that require NS Mathematics 11 and 12 or their equivalent. *Prerequisite(s): Permission of the instructor.*

**MATH 1003 Precalculus**
The study of functions and their properties. This includes an in-depth look at polynomials, rational, exponential, logarithmic, and trigonometric functions, and their applications. This course may not be used to satisfy major or minor Mathematics requirements. (3h lecture, 1.5h lab). *Prerequisite(s): Permission of the instructor. Antirequisite(s): MATH 1613. Students who receive credit for MATH 1013 may not subsequently receive credit for this course.*

**MATH 1013 Introductory Calculus 1**
Limits, tangent lines and derivatives, exponential, logarithmic and inverse functions. Application of the derivative to rates, extrema, curve sketching, indeterminate forms. Hyperbolic functions and parametric curves if time permits. (3h lecture, 1.5h studio). *Prerequisite(s): 60% or better in NS Precalculus 12 (or equivalent), or C- or better in Math 1003, or C- or better in Math 1613. Satisfactory performance on a diagnostic test is additionally required. Antirequisites(s): Credit can be obtained for only one of MATH 1013 or MATH 1613: however, students who have taken MATH 1613 and subsequently take MATH 1013 may use MATH 1613 as a science elective.*

**MATH 1023 Introductory Calculus 2**
Antiderivatives, the Fundamental Theorem of Calculus, techniques of integration, applications such as volumes, arc length, improper integrals, sequences, series, power series, Taylor series, Taylor polynomials. (3h lecture, 1.5h studio) *Prerequisite(s): Math 1013. It is strongly recommended that Math 1013 be completed in the previous semester.*

**MATH 1253 Statistics 1**
Descriptive statistics and exploratory data analysis, including correlation and the least squares regression line; basic probability including random variables and normal distribution; sampling distributions; introduction to estimation, confidence intervals and hypothesis testing; one-way analysis of variance. (3h lecture, 1.5h lab). *Prerequisite(s): Mathematics 11 and 12, or Precalculus 11 and 12, or MATH 1003. Antirequisite(s): MATH 1213, MATH 2233, ECON 2613. Students who have completed Math 2213 may not subsequently receive credit for this course.*

**MATH 1313 Foundations**
Topics may include: Number systems. Complex numbers and De Moivre's theorem. Base arithmetic. Sets, set operations. Methods of proof, logic, truth tables, and quantifiers. Permutations and combinations. The binomial theorem. Relations and functions. One-to-one and onto mappings. Basic number theory. Equivalence relations. Congruences. Simple codes. Graph theory. *Prerequisite(s): Mathematics 11 and 12 or Precalculus 11 and 12. Antirequisite(s): Credit can be obtained for only one of MATH 1313 or MATH 1413.*

**MATH 1323 Matrix Algebra**
Systems of linear equations, matrices, vectors in two and three dimensions, row reduction and echelon forms, linear independence and span, linear transformations, matrix operations, Invertible Matrix Theorem, subspaces, determinants, Cramer's Rule, eigenvectors and eigenvalues; a computational approach, with applications. (3h lecture, 1.5h lab). *Prerequisite(s): Mathematics 11 and 12, or Precalculus 11 and 12, or MATH 1003.* A*ntirequisite(s): MATH 1333.*

**MATH 1333 Introduction to Linear Algebra**
Systems of linear equations, matrices, vectors, row reduction and echelon forms, linear independence and span, linear transformations, matrix operations, Invertible Matrix Theorem, elementary matrices, LU Decomposition, subspaces, determinants and multilinear functions, Cramer's Rule, eigenvalues and eigenvectors, geometry of vector spaces, Singular Value Decomposition if time permits; a proof-based approach, with applications. *Prerequisite Mathematics 11 and 12, or Precalculus 11 and 12, or MATH 1003. Antirequisite(s): MATH 1323.*

**MATH 1413 Discrete Mathematics**
Logic, techniques of proof, mathematical induction, permutations and combinations, inclusion/exclusion, sets, relations and functions, elementary number theory. *Prerequisite Mathematics 11 and 12, or Precalculus 11 and 12 (or equivalent) and computer science enrolment or permission of the instructor. Antirequisite(s): Credit can be obtained for only one of MATH 1313 or MATH 1413.*

**MATH 1513 Truth in Numbers**
The mathematical and statistical applications that appear in day-to-day media are discussed. Topics may include elections, fair division, climate change, environment, public health, epidemiology, finances, google searches, cryptography, and polls, and will be based on stories in the media. The course will teach numeracy skills to understand these topics. The course cannot be used to meet the Mathematical requirement for Math or other Science majors.

**MATH 1533 Mathematical Concepts 1**
This course is designed for students planning a career in elementary or middle school education. Topics from problem solving, logic and sets, algebra and functions, integers, rational numbers, decimals, percents, and real numbers will be explored. This course may not be used by students in science, business, economics, or mathematics to fulfill major or minor mathematics requirements. *Prerequisite(s): Permission of the Department.*

**MATH 1543 Mathematical Concepts 2**
This course is designed for students planning a career in elementary or middle school education. Topics from problem solving, probability and data analysis, geometry, measurement and motion geometry will be explored. This course may not be used by students in science, business, economics, or mathematics to fulfill major or minor mathematics requirements. *Prerequisite(s): Permission of the Department.*

**MATH 1553 Patterns and Algebra**
An in-depth study of Patterns and Algebra across grades 4-10, focusing on the development and understanding of the underlying ideas. Additional focus will be placed on where student misconceptions occur, links with other mathematics ideas, and effective teaching strategies. *Science students, business students, economics students, and mathematics and statistics majors may not receive credit for this course.*

**MATH 1563 Number: Whole Numbers, Integers, Rational Numbers, and Real Numbers**
An in-depth study of number (whole numbers, integers, fractions, and decimals) across grades 4-10, focusing on the development and understanding of the underlying ideas. Additional focus will be placed on where student misconceptions occur, links with other mathematics ideas, and effective teaching strategies. *Science students, business students, economics students, and mathematics and statistics majors may not receive credit for this course.*

**MATH 1573 Geometry: 2D and 3D**
An in-depth study of 2- and 3-dimensional Geometry across grades 4-10, focusing on the development and understanding of the underlying ideas. Additional focus will be placed on where student misconceptions occur, links with other mathematics ideas, and effective teaching strategies. *Science students, business students, economics students, and mathematics and statistics majors may not receive credit for this course.*

**MATH 1583 Probability, Data Analysis, and Proportion**
An in-depth study of Probability, Data Analysis, and Proportional Reasoning across grades 4-10, focusing on the development and understanding of the underlying ideas. Additional focus will be placed on where student misconceptions occur, links with other mathematics ideas, and effective teaching strategies. *Science students, business students, economics students, and mathematics and statistics majors may not receive credit for this course.*

**MATH 1603 Fundamentals of Academic Mathematics**
This course is designed to assist students with the transition from high school mathematics to university mathematics. Topics include the study of algebraic expressions including polynomial, exponential, rational, and radical expressions; linear inequalities; problem solving; and an introduction to logic sets. This course may not be used to satisfy Mathematics requirements for any degree program. *Prerequisite(s): Permission of the instructor. Antirequisite(s): Students who have received credit for any other MATH 1000 level course may not subsequently receive credit for this course.*

**MATH 1613 General Linear Algebra and Calculus for Business and Economics**
Linear equations and their graphs. Systems of linear equations and linear inequalities. Polynomials, exponential and logarithmic functions. Linear inequalities in two variables and graphical methods of linear programming. Derivatives and optimization. Applications to business and economics are integrated throughout the course. Emphasis is on understanding how problems are formulated mathematically and on interpretation of mathematically-expressed real-world problems. Math 1613 is intended as a terminal course. Students wanting to take further math courses should take MATH 1013/MATH 1023 instead. *Prerequisite(s): Mathematics 11 and 12; or Precalculus 11 and 12, or Math 0110. Satisfactory performance on a diagnostic test may be additionally required. Antirequisite(s): Credit can be obtained for only one of Math 1013 and MATH 1613; however, students who have taken Math 1613 and subsequently take MATH 1013 may use this course as a science elective.*

**MATH 2013 Advanced Calculus**
Functions of several variables. Partial differentiation and applications. Vectors in $R^2$ and $R^3$. Multiple and iterated integrals. Polar coordinates, spherical and cylindrical coordinates and multiple integrals. Change of variable in multiple integrals. Vector-valued

functions and vector calculus. (4.5h lecture/studio combined) *Prerequisite(s): Math 1023. Antirequisite(s): Credit can be obtained for only one of Math 2013 or MATH 2753.*

**MATH 2023 Differential Equations 1**
First order differential equations, second order differential equations with constant and variable coefficients, introduction to systems of differential equations and phase plane analysis, series solutions, boundary value problems, Laplace transforms. (3h lecture, 1.5h studio) *Prerequisite(s): Math 1023. Antirequisite(s): Credit can be obtained for only one of Math 2023 or MATH 2723.*

**MATH 2213 Applied Probability for Science and Engineering**
Descriptive statistics, combinatorics, probability spaces, random variables, probability modeling, discrete and continuous distributions, joint distributions, covariance, correlation, sampling distributions, central limit theorem, simple linear regression. (3h lecture, 1.5h lab). *Prerequisite(s): Math 1023.*

**MATH 2223 Applied Statistics for Science**
Estimation, confidence intervals, testing hypotheses, non-parametric methods, goodness of fit, regression, analysis of variance. (3h lecture, 1.5h lab). *Prerequisite(s): Math 2213. Antirequisite(s): MATH 2243, MATH 2253*

**MATH 2243 Statistics 2 for Life Science**
Further topics in probability including independence and conditional probability, Binomial and Poisson distributions; estimation, confidence intervals and hypothesis testing for (i) proportions in one and two populations, (ii) means in one and two populations, (iii) linear regression models, (iv) goodness of fit and contingency tables (v) other statistical models including 1-way and 2-way ANOVA. Life Science applications will be included. (3h lecture, 1.5h lab). *Prerequisite(s): MATH 1253 or MATH 2233. Antirequisite(s): MATH 1223, MATH 2223, MATH 2253.*

**MATH 2253 Statistics 2 for Science**
Further topics in probability including independence and conditional probability, Binomial and Poisson distributions; estimation, confidence intervals and hypothesis testing for (i) proportions in one and two populations, (ii) means in one and two populations, (iii) linear regression models, (iv) goodness of fit and contingency tables (v) other statistical models. Science applications will be used throughout the course. (3h lecture, 1.5h lab). *Prerequisite(s): MATH 1253 or ECON 2613. Antirequisite(s): MATH 1223, MATH 2223, MATH 2243.*

**MATH 2313 Linear Algebra 2**
Abstract vector spaces, subspaces including null space and column space, linear transformations, coordinate systems, dimension, rank, change of basis, eigenvalues and eigenvectors, characteristic equation, diagonalization, inner product and orthogonality, orthogonal projections, Gram-Schmidt algorithm, inner product spaces, quadratic forms, Cayley-Hamilton Theorem. *Prerequisite(s): MATH 1323 or MATH 1333.*

**MATH 2433 Graph Theory and Algebraic Structures**
Graphs and trees with application to computer science, number theory, monoids, semi-groups, groups and homomorphisms with application to computer science, formal languages, finite state automata, and Turing machines. *Prerequisite(s): MATH 1413 or MATH 1313.*

**MATH 2633 Theory of Interest**
The Mathematical theory behind interest-based investments. This course is designed to help prepare students for Part I of the Society of Actuaries' Exam FM. Topics include: simple and compound interest, annuities, amortization schedules, sinking funds, bonds, and other securities. *Prerequisite(s): MATH 1023 or permission of the instructor*

**MATH 2723 Introductory Differential Equations**
First order differential equations, separation of variables, exact differential equations, integrating factors, second order differential equations with constant coefficients, general solutions, non-homogeneous equations, applications, equations with variable coefficients, series solutions, Laplace transforms. (4.5h lecture/studio combined) *Prerequisite(s): MATH 1023. Antirequisite(s): Credit can be obtained for only one of MATH 2023 or MATH 2723.*

**MATH 2753 Multivariate Calculus for Applied Science**
This course covers the calculus of vector-valued functions and functions of several variables. Topics include: vectors, dot product, cross product, parameterized curves, arc length, differentiation and integration of vector-valued functions, partial derivatives, optimization including Lagrange Multipliers, multiple integrals, change of variables in multiple integrals, vector fields, line integrals, surface integrals, Green's, Stokes' and Divergence Theorems. (4.5h lecture/studio combined) *Prerequisite(s): Math 1023. Antirequisite(s): Credit can be obtained for only one of MATH 2013 or MATH 2753*

**MATH 3013 Studies in Mathematics and Statistics 1**
Study of a particular topic in mathematics or statistics. *Prerequisite(s): 6h MATH at the 2000-level with minimum grade of C-, and permission of the Department.*

**MATH 3023 Studies in Mathematics and Statistics 2**
Study of a particular topic in mathematics or statistics. *Prerequisite(s): 6h MATH at the 2000-level with minimum grade of C-, and permission of the Department.*

**MATH 3213 Probability**
Elementary set theory, outcome spaces, probability spaces, laws of probability (discrete and continuous), independence, conditionality, random variables, random vectors, distributions of functions of random variables, moments and moment generating functions, special distributions, law of large numbers, central limit theorem. *Prerequisite(s): MATH 2013 or MATH 2753, MATH 2223, with minimum grades of C-.*

**MATH 3233 Regression**
An introduction to the methodology and theory involved in multi-linear regression. Topics include: variable selection, indicator variables, correlation analysis and general linear hypothesis testing. *Prerequisite(s): One of MATH 1323 or MATH 1333, and one of MATH 2223, MATH 2243, or MATH 2253, with minimum grades of C-. Antirequisite(s): Credit can be obtained for only one of MATH 3233 or ECON 2623*

**MATH 3253 Nonparametric Statistical Inference**
Nonparametric statistical inference and statistical methods based on ranks. Topics include rank and sign tests, linear rank statistics, nonparametric analysis of variance, measures of concordance, relative power and efficiency. *Prerequisite(s): One of MATH 2223, MATH 2243, or MATH 2253 with a minimum grade of C-.*

**MATH 3263 Sampling Theory**
Statistical surveys, simple random sampling, sampling proportions and percentages, estimation of sample size, ratio and regression estimators, stratified random sampling, cluster sampling, probability sampling. *Prerequisite(s): One of MATH 2223, MATH 2243, or MATH 2253 with a minimum grade of C-.*

**MATH 3273 Design and Analysis of Experiments**
Single and multi-factor analysis of variance, fixed and random effects models, analysis of co-variance, experimental design, including randomized block designs, balanced incomplete block designs, and factorial designs. Other topics may include repeated measures, split plot designs, response surface models, and fractional factorial designs. *Prerequisite(s): One of MATH 2223, MATH 2243, or MATH 2253 with a minimum grade of C-.*

**MATH 3283 Time Series**
Seasonal effects, trends, descriptive methods. Stochastic processes, moving average and autoregressive processes. Autocorrelation. Model fitting and Box Jenkins models. Forecasting. Regression based procedures. *Prerequisite(s): One of MATH 2223, MATH 2243, or MATH 2253 with a minimum grade of C-.*

**MATH 3293 Statistical Learning**
Modern statistical methods for supervised and unsupervised learning with large and complex data. Topics include: linear regression, classification, resampling methods, model selection and regularization, smooth regression, tree-based models, support vector machines, principal components and dimension reduction, clustering and statistical graphics. *Prerequisite(s): One of MATH 2223, MATH 2243, or MATH 2253 with a minimum grade of C-.*

**MATH 3303 Algebra 1**
Modern mathematics with emphasis on the fundamental concepts and structures of algebra. Introduction to groups, rings and fields. Topics including homomorphisms, isomorphisms, quotient structures, finite fields. *Prerequisite(s): MATH 2313 with a minimum grade of C-.*

**MATH 3343 Combinatorics**
The basic concepts and problems in combinatorial analysis, with applications. Topics include enumeration, selections and arrangements, distributions, binomial identities, Stirling numbers, recurrence relations, generating functions, inclusion-exclusion, Polya's theorem, designs. *Prerequisite(s): MATH 2213 with a minimum grade of C-.*

**MATH 3413 Numerical Methods**
Floating point computation, errors and their propagation, linear systems of equations, nonlinear equations, interpolation, numerical differentiation and integration. The solution of mathematical problems on a computer forms an integral part of the course. *Prerequisite(s): MATH 1023 and one of MATH 1323 or MATH 1333, each with a minimum grade of C-.*

**MATH 3513 Number Theory**
The basic concepts and problems of number theory. Topics included are properties of integers, divisibility and primes; congruences, power residues and quadratic reciprocity; Diophantine equations. *Prerequisite(s): MATH 2313 with a minimum grade of C- or permission of the instructor.*

**MATH 3533 Real Analysis 1**
The emphasis in this course is on a rigorous examination of the theory underlying calculus. Topics include set theory, countability, the real numbers as a complete and totally ordered field, convergence of sequences, convergence of functions, continuity, derivatives. *Prerequisite(s): MATH 2013 or MATH 2753, with a minimum grade of C-.*

**MATH 3543 Introductory Complex Variables**
Complex numbers, analytic functions, elementary functions; contour integrals, Cauchy integral formula, maximum modulus theorem, series, residues and poles, conformal mapping; applications. *Prerequisite(s): MATH 2013 or MATH 2753, with a minimum grade of C-.*

**MATH 3573 History of Mathematics**
A study of the history of mathematics from the seventeenth century onward, with particular emphasis being placed on the shift from classical methods to the more abstract modern setting. Topics covered may include: the vibrating string, Cauchy and the definition of limits, the origins of set theory, non-Euclidean geometry, the development of group theory from Lagrange to Klein and Lie. *Prerequisite(s): One of MATH 2013 or MATH 2753, and one of MATH 2023 or MATH 2723, with minimum grades of C-.*

**MATH 3603 Operational Research 1: Programming and Networks**
This course will provide an overview of the operational research modeling approach, and focuses on deterministic mathematical programming. Topics may include linear programming, transportation and assignment problems, network methods, integer programming, and nonlinear programming. *Prerequisite(s): MATH 2313 and either MATH 2013 or MATH 2753, with minimum grades of C-.*

**MATH 3633 Operational Research 2: Stochastic Models**
This course will focus on stochastic modeling. Topics may include decision analysis, simulation, recurrent events such as birth and death processes, Markov processes, queuing theory and waiting line models, and inventory control. *Prerequisite(s): MATH 2313 and either MATH 2213 or MATH 2233 with minimum grades of C-.*

**MATH 3713 Ordinary Differential Equations 2**
Topics include systems of linear differential equations, Sturm-Liouville problems, orthogonal functions, Fourier series, dynamical systems, nonlinear systems. *Prerequisite(s): MATH 1323 or MATH 1333 and MATH 2023 or MATH 2723, with minimum grades of C-.*

**MATH 3803 Fundamentals of Long-Term Actuarial Mathematics**
An introduction to the mathematics of life contingencies. Topics include: Life insurance, survival models, life tables and selection, insurance benefits, annuities, premium calculation, and policy values. The course is designed to partially prepare students for the FAM exam of the Society of Actuaries. *Prerequisite(s) or Corequisite(s): MATH 2633, MATH 3213 with minimum grades of C-.*

**MATH 3813 Fundamentals of Short-Term Actuarial Mathematics**
An introduction to the construction and evaluation of Actuarial models. Topics include: measures of risk, continuous and discrete actuarial models, coverage modifications, aggregate loss models. The course is designed to partially prepare students for the FAM exam of the Society of Actuaries. *Prerequisite(s) or Corequisite(s): MATH 3213 with a minimum grade of C-.*

**MATH 3823 Investment and Financial Markets**
Interest rate models, valuation of derivative securities, arbitrage and put-call parity, option pricing using the binomial and Black-Scholes models cash flow characteristics of exotic options, diffusion processes, Itô's lemma, simulation, risk management techniques. The course is designed to prepare students for the IFM exam of the Society of Actuaries. *Prerequisite(s): MATH 2633, MATH 3213, with minimum grades of C-.*

**MATH 4013 Topics in Mathematics and Statistics 1**
Senior-level study of a particular topic in mathematics or statistics. *Prerequisite(s): 6h MATH at 3000-level with minimum grade of C-, and permission of the Department.*

**MATH 4023 Topics in Mathematics and Statistics 2**
Senior-level study of a particular topic in mathematics or statistics. *Prerequisite(s): 6h MATH at 3000-level with minimum grade of C-, and permission of the Department.*

**MATH 407T Honours Thesis 1**
An honours thesis in mathematics or statistics to be completed in conjunction with the honours student's supervisor. The course requirements include an oral report and a written thesis. *Prerequisite(s): permission of thesis supervisor and department. Antirequisite(s): Credit can be obtained for only one of MATH 4913 or MATH 407T/MATH 408T.*

**MATH 408T Honours Thesis 2**
An honours thesis in mathematics or statistics to be completed in conjunction with the honours student's supervisor. The course requirements include an oral report and a written thesis. Prerequisite(s): permission of thesis supervisor and department. *Prerequisite(s): MATH 407T. Antirequisite(s): Credit can be obtained for only one of MATH 4913 or MATH 407T/MATH 408T.*

**MATH 4213 Mathematical Statistics**
Sampling distributions, elementary decision theory, estimation, testing hypotheses. *Prerequisite(s): MATH 3213 with a minimum grade of C-.*

**MATH 4223 Generalized Linear Models**
Review of least squares linear regression and maximum likelihood estimation. Generalized linear models, including binomial (logistic) regression, Poisson regression, contingency tables and log-linear models. Other topics in regression modeling such as survival analysis. *Prerequisite(s): Two of MATH 3213, MATH 3233, MATH 3253, MATH 3263, MATH 3273, MATH 3283, MATH 3293, with minimum grades of C-.*

**MATH 4233 Statistical Consulting**
The course aims to develop broad guidelines for a comprehensive approach to data analysis. Topics include data preparation, outlier detection and exploratory data analysis. Criteria for the selection of suitable methodologies are discussed as well as model validation

methods and empirical evaluation methods. The course will be based largely on case studies. *Prerequisite(s): 6h from MATH 3233, MATH 3253, MATH 3263, MATH 3273, MATH 3283, MATH 3293, with minimum grades of C-, 3h of which may be taken concurrently.*

**MATH 4323 Algebra 2**
Group theory, fields, field extensions, leading to Galois theory. *Prerequisite(s): MATH 3303 with a minimum grade of C-.*

**MATH 4333 Cryptography**
This course is an introduction to modern cryptographic techniques and their mathematical foundations. Review of elementary number theory and algebra; classical cryptosystems; encryption standards; public key cryptosystems; digital signatures. Elliptic curve cryptography and quantum cryptography may be included. *Prerequisite(s): MATH 3303 or MATH 3513, with a minimum grade of C-.*

**MATH 4343 Graph Theory**
Isomorphism, classes of graphs, vertex degrees, graphic sequences, properties of trees, spanning trees, decompositions, Eulerian graphs, Hamiltonian graphs, matchings and factorizations including Hall's Theorem, connectivity, graph colouring, planar graphs including Euler's Formula, extremality, optimization. *Prerequisite(s): MATH 2313 and a MATH 3000/4000-level course either taken previously or concurrently, with minimum grades of C-.*

**MATH 4423 Advanced Numerical Methods**
Numerical differentiation and integration, numerical solution of differential equations, optimization. The solution of problems on a computer forms an integral part of the course. *Prerequisite(s): MATH 3413 with a minimum grade of C- and enrolment in one 3000-level mathematics and statistics course.*

**MATH 4513 Introductory Topology**
Topics include topological spaces and metric spaces; closure, interior, boundary; bases for a topology; mappings and continuity; compactness and coverings; connectivity; product and quotient spaces. Additional topics such as the classification of surfaces, homotopy theory, and the fundamental group, if time permits. *Prerequisite(s): MATH 3533 with a minimum grade of C-.*

**MATH 4523 Measure and Integration**
Measurable sets. Lebesgue and Stieltjes integrals in $R^2$ and abstract spaces. Selected applications. *Prerequisite(s): MATH 3533 with a minimum grade of C-.*

**MATH 4553 Real Analysis 2**
A continuation of 3533. Topics include integration, infinite series and power series, convergence in Rn, topology in Rn, continuity and differentiability for multivariate functions, implicit and inverse function theorems, extra topics such as Fourier series if time permits. *Prerequisite(s): MATH 3533 with a minimum grade of C-.*

**MATH 4613 Theory of Optimization**
Linear and convex programming, convex functions and duality; Lagrange multipliers; Kuhn-Tucker methods. Topics may include: genetic algorithms, simulated annealing. *Prerequisite(s): MATH 3533 and MATH 3603, with minimum grades of C-.*

**MATH 4753 Partial Differential Equations**
Topics may include linear second order partial differential equations (parabolic, elliptic, and hyperbolic), separation of variables, eigenfunction expansion, Fourier series, method of characteristics, non-linear waves. *Prerequisite(s): MATH 3713 and either MATH 2013 or MATH 2753, with minimum grades of C-.*

**MATH 4773 Fluid Dynamics**
Topics may include the Navier-Stokes equations, streamlines, circulation, vorticity, irrotational flow, potential flow, laminar flow, gravity waves, dimensional analysis, geophysical fluid dynamics, turbulence, hydrodynamic instability. *Prerequisite/Corequisite(s): MATH 4753 with a minimum grade of C- or permission of the instructor.*

**MATH 4803 Advanced Long-Term Actuarial Mathematics**
Further topics in the mathematics of life contingencies. Topics include: multiple state models, pension mathematics, emerging costs for traditional life insurance and equity-linked insurance, option pricing, and embedded options. The course is designed to prepare students for the ALTAM exam of the Society of Actuaries. *Prerequisite(s): MATH 3803 with a minimum grade of C-.*

**MATH 4813 Advanced Short-Term Actuarial Mathematics**
Further topics on construction and evaluation of Actuarial models. Topics include: construction of empirical models, estimation for complete or modified data, parametric estimation methods, model selection, credibility, and simulation. The course is designed to prepare students for the ASTAM exam of the Society of Actuaries. *Prerequisite(s): MATH 3813 with a minimum grade of C-.*

**MATH 4913 Honours Project**
An honours project in mathematics or statistics to be completed in conjunction with the honours student's advisor. An oral report (seminar) and a written report on the project are required in the second term. *Prerequisite(s): at least third-year standing in the honours program. Antirequisite(s): Credit can be obtained for only one of MATH 4913 or MATH 407T/MATH 408T.*

## Mi'kmaw

**MIKM 1113 Mi'kmaw Language 1**
Introductory Mi'kmaw language. Emphasis will be on developing basic conversational skills as well as linguistic and cultural awareness.

**MIKM 1123 Mi'kmaw Language 2**
A continuation of Mi'kmaw Language 1. Emphasis will be on developing basic conversational skills as well as linguistic and cultural awareness. *Prerequisite(s): MIKM 1113 or permission of the instructor.*

## Music

**MUSI 1013 Understanding Music for Non-Music Majors**
A history of musical style of Western music. Developing an understanding and appreciation of musical style through reading and listening to select master pieces. No previous formal training in music is required but essential knowledge of fundamentals of music and the art of listening will be introduced. This course is not available to music majors for credit in the degree.

**MUSI 1033 Reading and Writing Music 1**
Fundamentals of music reading and notation and basic concepts in music theory; an introductory course, designed for the non- music major.

**MUSI 1043 Reading and Writing Music 2**
Fundamentals of music reading and notation and basic concepts in music theory; an introductory course, designed for the non- music major. *Prerequisite(s): MUSI 1033 or permission.*

**MUSI 1063 Music Theory for Non-Music Majors**
Preliminary music fundamentals and practical skills. Introduction to music theory: melody, rhythm, intervals, chords, harmony and styles of musical expression. Students learn to read and write music signs and symbols from the traditional language of tonal music. Examples drawn from classical through to popular music; requires no previous formal training in music. This course is not available to music majors for credit in the degree.

**MUSI 1253 Music and Society**
An introduction to the historical and socio-cultural context for the study of music. This course will examine a wide range of repertoires and historical periods in developing critical thinking, listening, and analysis skills for the study of music history and culture.

**MUSI 1273 – Music Through the Ages**
This course initiates a comprehensive historical survey of music, addressing both the performance of music as well as the historical and socio-cultural basis for important stylistic developments. Analytical listening, research and writing skills, and the development of a music-specific vocabulary will be emphasized. *By permission of the School of Music.*

**MUSI 1283 – Music Through the Ages 2**
This course furthers the historical survey of music initiated in MUSI 1273 and continues to address the performance of music as well as the historical and socio-cultural basis for important stylistic developments. Analytical listening, research and writing skills, and the development of a music-specific vocabulary will be emphasized. *Prerequisite(s): MUSI 1273.*

**MUSI 1353 Guitar Class**
Students will learn the basic mechanics of guitar technique including strumming, finger-picking and lead and accompaniment playing. Rudimentary music theory, ear training and harmony, and reading chord symbols, music notation and guitar tablature will be covered through aural and written repertoire from diverse sources. Note: $200 surcharge for non-music majors. Not eligible for applied guitar students.

**MUSI 1363 Diction for Singers**
A laboratory course in basic enunciation, production and projection of the English, Italian, German and French languages. The International Phonetic Alphabet (IPA) will be utilized to clearly understand the correct pronunciation of the vowels and consonants. Course content will include performance of assigned songs, presentations and projects. Recommended for any student studying applied voice.

**MUSI 1563 Music: Body, Mind, and Spirit**
An introduction to the psychological, neurological, somatic, socio-cultural, and transpersonal foundations of music. Topics will include music and memory, emotion, aesthetics, and psychoacoustics. Students will have the opportunity to explore current research and its relationship to the practice of music therapy, music education, and performance. *Prerequisite(s): Permission of the instructor.*

**MUSI 1600 First-Year Chorus**
University Chorus for first-year music students to develop aural comprehension, sight-singing skills, and instruction in large ensemble performance. *Prerequisite(s): Permission of the School of Music.*

**MUSI 169A-169B Playing and Hearing Music**
An introduction to fundamental principles of applied collaboration and musicianship. Students will develop critical listening skills, internal conception of sound, improvisation, transcription and aural analysis, and ensemble awareness. Includes intensive work on various

styles and repertoire in small groups. *Prerequisite(s): Permission of the School of Music.*

**MUSI 1663 Applied Study**
*Prerequisite(s): Permission of the School of Music.*

**MUSI 1713 Guitar Skills and Techniques**
This course continues development on the guitar through intermediate and advanced exploration of a variety of musical styles and genres, improvisation, accompanying self and others, sight-reading, harmony and transposition, and healthy performance practices. While primarily for future educators and therapists, this course will benefit anyone who will be using guitar in a professional capacity. *Prerequisite(s): Prior experience required, and registration is granted by permission of the instructor.*

**MUSI 1723 Keyboard Skills and Techniques**
This course continues development on the piano through intermediate and advanced exploration of a variety of musical styles and genres, improvisation, accompanying self and others, sight-reading, harmony and transposition, and healthy performances practices. While primarily for future educators and therapists, this course will benefit anyone who will be using keyboard in a professional capacity. *Prerequisite(s): Prior experience is required, and registration is granted by permission of the instructor.*

**MUSI 1733 Vocal Skills and Techniques**
This course explores a variety of musical styles and genres, improvisation, singing alone and with others, sight-reading, harmony and transposition, and healthy performance practices. While primarily for future educators and therapists, this course will benefit anyone who will be using their voice in a professional capacity. No previous experience required.

**MUSI 181A-181B Comprehensive Keyboard**
Basic instruction and introduction to keyboard skills that support and facilitate the application and learning of theory, ear training, sight-singing, and solfège. (1.5h lab). *Prerequisite(s): Permission of the School of Music.*

**MUSI 1823 Practising Music**
An exploration of different practice concepts, designed to improve one's own practice habits and ultimately performance. Concepts are approached theoretically with research-based readings and resources, and applied practically through independent and collaborative learning on students' principal or secondary instruments. *No prerequisites.*

**MUSI 2003 Jazz History**
A survey of jazz music, examining the musical and social pre-conditions of jazz. An opportunity to learn how to listen, understand and appreciate the music of this era, and to explore the central figures and styles that make up jazz as we know it to the present day.

**MUSI 2013 History of Musical Theatre**
An exploration of the 'life and times' of musical theatre, from the inception of musical drama during ancient times through to modern musical theatre.

**MUSI 2063 Musics of the World**
This course is an introduction to some of the principal musical traditions from five regions of the world: India, The Middle East, Eastern Europe, Africa and Southeast Asia. Each class will provide participants the opportunity to listen deeply, and discuss ideas about music and culture. A hands-on component will complement each unit. Open to students from all academic disciplines.

**MUSI 2083 World Rhythm and Drumming**
Open to music and non-music majors, this comprehensive course is a hands-on introduction to the techniques and cultural traditions of drumming around the world. In addition to rhythmic training and hand-drumming instruction, in-class listening and group discussion will play a primary role in the course. Students will participate in a year-end performance demonstration.

**MUSI 2103 Music Theory for the Contemporary Musician 1**
Part one of a comprehensive course that integrates topics in classical music theory with jazz theory, popular music, and musics of the world. Foundational topics such as harmony, counterpoint, analysis, and composition will be taught from a broad perspective that forges connections between different traditions, styles, and genres. *Prerequisite(s): MUSI 169B with a minimum grade of C-.*

**MUSI 2163 Introduction to Music Technology**
Various topics including but not limited to, introduction to computer music notation, audio recording and editing, video editing, live sound.

**MUSI 2183 Introduction to Composition**
Various compositional techniques of the twentieth century. *Prerequisite(s): MUSI 169B with a minimum grade of C- or permission of instructor.*

**MUSI 2193 Introduction to Songwriting**
The art and craft of songwriting in various genres. Through analysis of individual and group creative work, students will develop their abilities to create songs. *Prerequisite(s): MUSI 169B with a minimum grade of C- or permission from instructor.*

**MUSI 2203 Music Theory for the Contemporary Musicians 2**
Part two of a comprehensive course that integrates topics in classical music theory with jazz theory, popular music, and musics of the

world. Foundational topics such as harmony, counterpoint, analysis, and composition will be taught from a broad perspective that forges connections between different traditions, styles, and genres. *Prerequisite(s): MUSI 2103 with a minimum grade of C-.*

**MUSI 2283 Old Music in a Modern World**
An examination of the contemporary performance and performers of historical repertoires. Topics may include (but are not limited): historically-informed performance; modern stages of historic operas; ancient music as a source of inspiration for new compositions; use of "Classical" music in movies and television; the performer as an historian; and marketing "Classical" music for modern audiences. *Prerequisite(s): MUSI 1273 and MUSI 1283, each with a minimum grade of C-.*

**MUSI 2343 Percussion Methods**
Percussion techniques and instrumentation for the contemporary music educator. *Prerequisite(s): Permission of School of Music.*

**MUSI 2353 String Methods 1**
A practical approach to strings (violin, viola, cello, and bass), and related instructional methods and materials.

**MUSI 2383 Introduction to Gamelan**
A hands-on introduction to the playing techniques and repertoire of gamelan - the traditional tuned percussion orchestra of Indonesia. The course is presented in weekly "laboratory" sessions, which are supplemented by the independent study of readings and audio-visual material. The gamelan class will also participate in a year-end performance demonstration.

**MUSI 2573 Diverse Approaches to Music Therapy Practice**
This introduction to music therapy presents the diverse approaches to theory, research, and practice. Topics include development of the profession, different client populations, the effective use of music in therapeutic contexts, the importance of valuing human difference, and practicum overview. The discipline is explored in classroom experiences and by examining models such as Nordoff-Robbins, Medical Music Therapy, and Community Music Therapy. *Prerequisite(s): MUSI 1563 with a minimum grade of B-.*

**MUSI 2663 Applied Study**
*Prerequisite(s): MUSI 1663.*

**MUSI 2693 Playing and Hearing Music 2**
This course continues a student's introduction to fundamental principles of practical musicianship, with an emphasis on developing the advanced ear-training skills for engaging in creative and interpretive performance. Students will develop these skills by creatively applying different meters, conceptions of pulse, poly-rhythms, intervallic fluency, modal improvising, and expressive techniques, as well as transcription, aural analysis, and critical peer- and self-feedback. *Prerequisite(s): MUSI 169B with a minimum grade of C-.*

**MUSI 2700 Performing Ensemble 1**
Performing ensemble for music majors. Non-music majors may join with permission of the instructor. Students must successfully complete both the fall and winter term of the ensemble.

**MUSI 271A-271B Topics in Collaborative Music**
Topics in Collaborative Music includes intensive work on various repertoire with a small group and a faculty coach. This course may include weekly coaching, academic lectures, assignments, and performance opportunities. Course may be repeated for credit.

**MUSI 2713 Topics in Collaborative Music**
Topics in Collaborative Music includes intensive work on various repertoire with a small group and a faculty coach. This course may include weekly coaching, academic lectures, assignments, and performance opportunities. Course may be repeated for credit.

**MUSI 2793 Playing and Hearing Music 3**
A continuation of fundamental principles of practical musicianship, with an emphasis on group collaboration and professional performance practices. Students will further individual musical skills and concepts through their creative application in diverse musical idioms, focus on harmonic analysis, and improvisation. Course material will be completed in the context of a class-wide capstone project, including promotion, publicity, production and performance. *Prerequisite(s): MUSI 2693 with a minimum grade of C-.*

**MUSI 2870 Concert Credit**
All music students enrol yearly in this Concert and Lecture series.

**MUSI 2903 Special Course in Music**

**MUSI 3003 History of Rock Music**
The social, political, and cultural history of rock music. This course is designed for non-music majors and no previous musical training is required.

**MUSI 3033 Soundpainting**
Soundpainting is a live-composing, multi-disciplinary, sign-language for improvising ensemble musicians. In this introductory course students will explore ways to shape ensemble improvisation to create coherent compositions, performing for each other in an ensemble setting. *Prerequisite(s): MUSI 169B.*

**MUSI 3043 Self-Directed Projects**
Provides students the opportunity to create a small group project of their own design. Self-directed projects receive a faculty mentor who sets a series of musical and academic goals, provides leadership and collaborative skills, and supports opportunities for performance. Students will submit a proposal for approval prior to registration in this course*. Prerequisite(s): MUSI 2203 or permission of instructor.*

**MUSI 3143 Conducting 1**
This introductory course prepares students to lead music ensembles (instrumental and choral), with an emphasis on the needs of music educators. Topics include gestural expression, score analysis, interpretation, and rehearsal techniques. *Prerequisite(s): MUSI 2203.*

**MUSI 3163 Electronic Music Composition**
This course examines the theory, history and practice of electroacoustic and computer music creation, including practical work in the electroacoustic music studio. It may be offered as a structured seminar or as an independent study and can be repeated for credit. This course is open to music and non-music majors. *Prerequisite(s): MUSI 2203 with a minimum grade of C- or permission of the instructor.*

**MUSI 3183 Advanced Topics in Music Theory and Analysis**
Selected topics for further study, which may include advanced chromatic harmony, counterpoint, stylistic analysis, theories of musics outside the Western canon, queer theory, feminist theory, and other topics on a rotational basis. *Prerequisite(s): MUSI 2203 with a minimum grade of C-.*

**MUSI 3193 Orchestration and Arranging**
A survey of traditional and modern orchestral techniques and arranging strategies for various ensembles. Includes intensive score analysis and original work. *Prerequisite(s): MUSI 2203 with a minimum grade of C-.*

**MUSI 3223 Music in Canada**
A study of music in Canada, past and present, presented within the context of the socio-cultural, political, and economic history of the country. *Prerequisite(s): Students must have completed 30h of University credits.*

**MUSI 3243 Musical Masterworks**
The history and style of significant musical works from vocal and/or instrumental genres, examined through readings, recordings, and score study. This course may address a particular theme (such as music and nature, or music and war), or may address music of a particular genre (such as the symphony, chamber music, or music and drama). *Prerequisite(s): MUSI 1273 and MUSI 1283, each with a minimum grade of C- or permission of the instructor.*

**MUSI 3263 Music Production Workshop**
This course will focus on processes in popular music and jazz for songwriters, music groups and students interested in cross collaborative creation. Topics include recording technology, notation software, studio/live music production, the creation and performance of original works, and work towards a final recording project. Course can be repeated for credit. *Prerequisite(s): MUSI 2103 with a minimum grade of C- or permission of the instructor.*

**MUSI 326A-326B Music Production Workshop**
This course will focus on processes in popular music and jazz for songwriters, music groups and students interested in cross-collaborative creation. Topics include recording technology, music production, and the creation and performance of original works. Course can be repeated for credit and will include work toward preparation of final recording project. *Prerequisite(s): MUSI 2103, (recommended MUSI 3713) or permission of the instructor.*

**MUSI 3310 Music Education Seminar Band**
This is the Lab for Introduction to High School Instrumental Music. Music Education students receive practical experience working with junior and senior high school students in the Acadia Youth Band. This course may be taken more than once. *Corequisite(s): MUSI 431A/MUSI 431B or permission of the School of Music.*

**MUSI 3311 Flute Methods**
Introduction to flute technique, and instructional methods and materials for teaching the flute. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3320 Music Education Seminar**
This seminar provides a laboratory for music education students to explore best practices in classroom instruction and/or ensemble processes through observation and/or direct participation. Course may be repeated for credit. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3321 Oboe Methods**
Introduction to oboe technique, and instructional methods and materials for teaching the oboe. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3331 Bassoon Methods**
Introduction to bassoon technique, and instructional methods and materials for teaching the bassoon. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3341 Clarinet Methods**
Introduction to clarinet technique, and instructional methods and materials for teaching the clarinet. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3351 Saxophone Methods**
Introduction to saxophone technique, and instructional methods and materials for teaching the saxophone. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3361 Trumpet Methods**
Introduction to trumpet technique, and instructional methods and materials for teaching the trumpet. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3371 French Horn Methods**
Introduction to horn technique, and instructional methods and materials for teaching the French horn. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3381 Trombone Methods**
Introduction to trombone technique, and instructional methods and materials for teaching the trombone. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3383 Pedagogy for Musicians**
In this course students will study the methods and principles of music instruction. *Prerequisite(s): MUSI 2203 with a minimum grade of C-.*

**MUSI 3391 Tuba/Euphonium Methods**
Introduction to tuba and euphonium technique, and instructional methods and materials for teaching low brass instruments. *Prerequisite(s): Permission of the School of Music.*

**MUSI 3560 Music Therapy Practicum with Seminar 1**
This is the first of four supervised, off-campus practicum placements. During the on-campus seminar component, students will have the opportunity to reflect upon their clinical experiences, and gain support and direction through Music Therapy Accredited faculty supervision. Students will develop the ability to articulate clinical experiences through completing and reviewing clinical documentation**.** *Corequisite(s): MUSI 3563.*

**MUSI 3563 Skills and Resources in Music Therapy**
This course introduces students to the fundamental skills needed for treatment planning and implementation. Topics include assessment, formulation, of clinical goals and objectives, structuring and facilitating treatment plans, organizing and leading a session, evaluation and documentation. Students will develop clinical musicianship skills. Current music therapy literature related to clinical models and client populations will be utilized. *Prerequisite(s): MUSI 2573 with a B-. Corequisite(s): MUSI 3560.*

**MUSI 3570 Music Therapy Practicum with Seminar 2**
This is the second of four supervised, off-campus practicum placements. During the on-campus seminar component, students will have the opportunity to reflect upon their clinical experiences, and gain support and direction through Music Therapy Accredited faculty supervision. Students will develop the ability to articulate clinical experiences through completing and reviewing clinical documentation. *Corequisite(s): MUSI 3573. Prerequisite(s): Permission of the instructor.*

**MUSI 3573 Clinical Practice in Music Therapy**
This course aims to deepen the student's understanding of effective clinical practice. Topics include experiential modeling of therapeutic interventions, verbal counselling, critical reflection on treatment process, and a student of the Canadian Association of Music Therapy Code of Ethics. Clinical musicianship is enhanced through improvisation, composition, re-creating, and receptive listening to music. Clinical populations include developmental, aging, psychotherapeutics, medical, and wellness communities. *Prerequisite(s): MUSI 3563 with a minimum grade of B-. Corequisite(s): MUSI 3570.*

**MUSI 3660 Performance Recital**
A 30-minute recital. *Prerequisite(s): Permission of the School of Music.*

**MUSI 366A-366B Applied Study**

**MUSI 3663 Applied Study**
*Prerequisite(s): MUSI 2663.*

**MUSI 3683 Scene Studies**
This course synthesizes acting, movement, communication and musical skills to prepare the student for effective stage performance. Excerpts from the historical and contemporary repertoire emphasize ensemble interaction between performers.

**MUSI 3713 Improvisation and Creative Process**
The shifting landscape of the 21st century requires an approach that is flexible, resilient, and above all, creative. Drawing from practical and academic sources, we will expand our methods and understanding of this essential, yet normally intangible, life skill. For music majors or other students interested in enhancing creative approaches in their chosen discipline as well as everyday life. *Prerequisite(s): Permission of the instructor*.

**MUSI 407T Honours Thesis 1**
*Prerequisite(s): Permission of the School of Music.*

**MUSI 408T Honours Thesis 2**
*Prerequisite(s): MUSI 407T, permission of the School of Music.*

**MUSI 4103 Introduction to Post-Tonal Theory**
Theories and analytical techniques for exploring twentieth century, post-tonal music including: pitch-class set theory, transformational networks, 12-tone serialism, and combinatoriality. Weekly seminar. *Prerequisite MUSI 2203 with a minimum grade of C-.*

**MUSI 4113 Special Studies in Music Theory**
Selected topics in music theory and analysis. May be offered as a structured seminar or an independent study. *Prerequisite(s): MUSI 2203 with a minimum grade of C-.*

**MUSI 4123 Structural Analysis**
Concepts and tools of analysis applied to a wide variety of music literature. The growth and expansion of musical structure through the analysis of the traditional repertoire and twentieth-century works. *Prerequisite(s): MUSI 2203 with a minimum grade of C-.*

**MUSI 4143 Choral Conducting**
The fundamentals of conducting, including posture, stance conducting patterns, beat styles, score preparation and rehearsal procedures. A variety of phrases and short pieces of music (acapella and accompanied) are studied and performed. Course work includes observation of conductors on campus and in the community. *Prerequisite(s): MUSI 2203 with a minimum grade of C- and MUSI 3143.*

**MUSI 4153 Conducting 2**
This course is the second part of the conducting course sequence, continuing the in-depth preparation of students to lead choirs, orchestras, and bands. Students explore advanced score study and rehearsal techniques, leadership, organization, and administration of ensemble programs. *Prerequisite(s): MUSI 3143 or permission of the instructor.*

**MUSI 4163 Jazz Theory**
A study of jazz harmonic structures and compositional styles with a focus on post-1960s jazz. The course will feature analysis of modern jazz repertoire as well as jazz composition, harmonization, and arranging. *Prerequisite(s): MUSI 2203 with a minimum grade of C-.*

**MUSI 4183 Advanced Musicianship**
Special topics in advanced musicianship for performance majors. Topics may include improvisation, rhythmic performance, extended instrument techniques etc. *Course may be repeated for credit.*

**MUSI 4213/MUSI 4223 Special Studies in Music History**
Selected topics in musical history and literature. *Prerequisite(s): Students must have completed 30h of university credits.*

**MUSI 4243 Opera History: Sex, Gender and Stereotypes in Opera**
The aim of this course is to explore the representation of gender and sexuality in Opera. Utilizing listening examples and a broad range of texts, the role of the castrato (a male singer with a treble voice) and the development of the “trouser-role” (the mezzo-soprano portraying men and boys) will be examined. *Prerequisite(s): Students must have completed 30h of University credits.*

**MUSI 4283 Women in Music**
A seminar course exploring topics and issues pertaining to women’s participation and representation in music throughout history up to the present day. *Prerequisite(s): Students must have completed 30h of University credits.*

**MUSI 431A-431B Introduction: High School Instrumental Music**
Students will be introduced to the philosophies and practical skills that support successful instrumental music instruction in high schools. Topics will include repertoire selection, administration of resources, scheduling, and lesson/unit design congruent with the Nova Scotia Instrumental Music Curriculum. *Prerequisite(s): Permission of the instructor. Corequisite(s): MUSI 3310.*

**MUSI 43B3 Introduction: Elementary Classroom Music**
Students are introduced to practical skills and philosophies required for successful classroom music teaching in elementary schools. Work with classroom instruments, vocal production, and music listening are introduced, congruent with the Nova Scotia Music Curriculum. *Prerequisite(s): Permission of the instructor. Corequisite(s): MUSI 3320.*

**MUSI 4343 Musicians for Contemporary Communities**
This course will identify and provide methods for hearing across musical traditions. It aims to offer students a framework to create, support and facilitate contemporary music making spaces. Topics will include self-assessment of musical language and bias, tools to hear and describe music and movement outside one's frame of reference, and case studies focussed on creating spaces of play in education and community. *Prerequisite(s): MUSI 2203 with a minimum grade of C- or the permission of the instructor.*

**MUSI 4363 Vocal Science and Pedagogy**
A course designed to provide information on a wide variety of topics related to vocal function, health and wellness, as well as to the teaching of voice.

**MUSI 4383 Wind Repertoire**
This course explores wind music repertories from around the world from the Renaissance to the present day, with a special emphasis on Canadian music and EDI considerations. Specific works are explored in detail through examination of scores, recordings, composer biographies, and cultural contexts. *Prerequisite(s): MUSI 2203.*

**MUSI 4393 Topics in Music Education**
Music Education Topics courses provide an opportunity for in-depth study of specific music education techniques. Topics can include intensive instrumental methods, pedagogy, or advanced readings courses organized in consultation with the instructor. *Prerequisite(s): Permission of the School of Music.*

**MUSI 4560 Music Therapy Practicum with Seminar 3**
This is the third of four supervised, off-campus practicum placements. During the on-campus seminar component, students will have the opportunity to reflect upon their clinical experiences, and gain support and direction through Music Therapy Accredited faculty supervision. Students will develop the ability to articulate clinical experiences through completing and reviewing clinical documentation. *Corequisite(s): MUSI 4563. Prerequisite(s): Permission of the instructor.*

**MUSI 4563 Advancing Clinical Practice in Music Therapy**
This course is designed to promote proficiency in clinical practice. Topics will include advanced exploration of music therapy interventions, verbal counselling and music, ethical decision making, and documentation. Review of research includes quantitative and qualitative methods. Current technology for recording and adapted instruments is explored. Models include Analytical Music Therapy, Sound Healing, Guided Imagery in Music, and Neurological Music Therapy. *Corequisite(s): MUSI 4560. Prerequisite(s): MUSI 3573 with a minimum grade of B-.*

**MUSI 4570 Music Therapy Practicum with Seminar 4**
This is the fourth of four supervised, off-campus practicum placements. During the on-campus seminar component, students will have the opportunity to reflect upon their clinical experiences, and gain support and direction through Music Therapy Accredited faculty supervision. Students will develop the ability to articulate clinical experiences through completing and reviewing clinical documentation. *Corequisite(s): MUSI 4573. Prerequisite(s): Permission of the instructor.*

**MUSI 4573 Professional Issues in Music Therapy**
In preparation for their internship, students will study the pragmatics of professional practice. Topics include legal aspects for responsible practice, ethical business planning and promotion, professional issues within a multidisciplinary team, individual responsibility to the profession, and effective self-care strategies. Students will also learn how to prepare for the CBMT exams. *Corequisite(s): MUSI 4570. Prerequisite(s): MUSI 4563 with a minimum grade of B-.*

**MUSI 4663 Applied Study**
*Prerequisite(s): MUSI 3663.*

**MUSI 4903 Applied Study**
Course can be repeated for credit.

**MUSI 4943 Performance Recital 2**
This course includes the completion of a solo recital by the graduating student. *Prerequisite(s): MUSI 3660 with minimum grade of B+. Corequisite(s): MUSI 4940L, 6h applied.*

**MUSI 4953 Recital and Portfolio of Original Works**
This course includes the completion of a recital and creation of a portfolio of original work by the graduating student. Evidence of originality and command of contemporary ideas are expected in both the recital and portfolio. *Prerequisite(s): Permission of the instructor.*

**MUSI 4993 Thesis**
Final research project.

## Nursing

**NURS 1203 Transitions to the Role of a Professional Registered Nurse**
This is the first nursing course in the Licensed Practical Nurse (LPN) to Bachelor of Science in Nursing (BScN) pathway and will build on the knowledge and skills acquired in the student's LPN program. The focus of the course is to support student's transition from LPN to a baccalaureate prepared (BScN). The course introduces students to a concept-based curriculum and foundational concepts of professional RN practice including role and responsibilities, professional RN identity, ethics, and legal issues. Topics such as: scope of practice, standards of nursing practice, code of ethics, entry-level competencies, Nova Scotia College of Nursing (NSCN) and the Canadian Nurses Association (CNA) will be included. Students are introduced to concepts of collaboration, communication, relational practice, informatics, and leadership.

**NURS 1213 The Roles of the Registered Nurse in Evidence-Informed Practice**
This is the second course in the Licensed Practical Nurse (LPN) to Bachelor of Science in Nursing (BScN) pathway and will build on the knowledge and skills acquired in the student's LPN program. It is delivered by St. Francis Xavier University.

**NURS 2103 Professional Formation of Nursing 1**
This course is an introductory nursing course designed to assist students in developing a professional identity as a Registered Nurse (RN). Students will identify and analyze concepts that define and underpin the professional identity of the RN. Students will be introduced to attributes of professionalism, which include leadership, clinical judgement, communication, ethics, and comportment. Concepts introduced in Professional Formation 1 will be further explored in Professional Formation 2 and 3.

**NURS 2203 Foundations of Nursing 1**
This course is designed to assist students in understanding professional nursing competencies and concepts in the care of diverse populations across the lifespan. Emphasis will be on the development of psychomotor skills and clinical reasoning related to the concepts of communication, grief, clinical judgment, perfusion and gas exchange, thermoregulation, infection, tissue Integrity, mobility, elimination, nutrition, acute and chronic pain in diverse populations across the lifespan. An additional three - hour nursing practice component per week for eight weeks is integrated into this course. *Co-requisite(s): NURS 2200L.*

**NURS 2213 Foundations of Nursing 2**
This course will focus on the Integration of foundational nursing concepts, skills, and practice such as patient safety, nutrition, elimination and tissue integrity. Emphasis will be on the development of psychomotor skills and clinical judgment related to populations in transition across the lifespan. An additional three - hour nursing practice component per week for eight weeks is integrated into this course. *Prerequisite(s): NURS 2103, NURS 2203, NURS 2403, NURS 2413, NURS 2903. Co-requisite(s): NURS 2210L.*

**NURS 2303 Health & Illness**
This course explores the nursing of individuals and families in transition across the lifespan. Using evidenced-based research, students will explore the role of the nurse in facilitating the health of individuals and families through various life stages including childbirth. Through a process of critical inquiry, biopsychosocial responses related to associated health and illness events across the lifespan. *Prerequisite(s): NURS 2103, NURS 2203, NURS 2403, NURS 2413, NURS 2903.*

**NURS 2403 Health Promotion and Assessment 1**
This course focuses on health promotion and illness prevention of individuals across the lifespan. Using the population health promotion model as a framework, this course will allow students the opportunity to analyze health concepts with nursing application through selected exemplars. This course, in particular, will emphasize the assessment phase of the Clinical Judgement/Decision Making with theoretical and practical applications focusing on the comprehensive and systematic assessment of individuals. Students are introduced to health promotion principles and the utilization of these principles in planning and implementing health promotion plans for individuals. An additional three - hour nursing practice component per week for eight weeks is integrated into this course. *Co-requisite(s): NURS 2400L.*

**NURS 2413 Health Promotion and Assessment 2**
This course explores the concepts of health and wellness and the nurse's role in health promotion at the family, group and community level. Students will utilize the population health promotion model and clinical judgement/decision making as a framework for working with families, groups, and communities.

**NURS 2503 Pathophysiology in Diverse Populations Across the Lifespan**
This course focuses on the study of foundational concepts and physiologic processes related to human pathophysiology across the lifespan. Emphasis is on understanding pathophysiology as an alteration in normal physiological functioning. Topics include the pathogenesis of common diseases across the life span. Within each topic the rationale for nursing interventions is explored. *Prerequisite(s): NURS 2103, NURS 2203, NURS 2403, NURS 2413, NURS 2903.*

**NURS 2513 Pharmacotherapeutics, Alternative and Complementary Therapies Across the Lifespan**
This course will explore concepts of pharmacotherapeutics, alternative and complementary therapies in diverse populations across the lifespan. Emphasis will be on understanding the basic principles of pharmacokinetics and pharmacodynamics and how these principles affect nursing interventions and treatment decisions in all populations across the lifespan. An additional three - hour nursing practice component per week for eight weeks is integrated into this course. *Prerequisite(s): NURS 2103, NURS 2203, NURS 2403, NURS 2413, NURS 2903. Co-requisite(s): NURS 2510L.*

**NURS 2903 Nursing Practice Integration 1: Foundational Concepts in Nursing**
This practicum focuses on the Integration of foundational concepts of nursing knowledge, skills, and practices. Application of these foundational concepts will occur in a variety of nursing practice settings. This course will consist of 160 hours of nursing practice application. *Co-requisite(s): NURS 2900L.*

**NURS 2913 Nursing Practice Integration 2: Care of Persons and Families in Transition Across the Lifespan**
This course builds upon Nursing Practice Integration 1. This course will integrate professional nursing concepts related to the nursing care of persons and families in transition across the lifespan. This course will broaden students' understanding of professional nursing competencies and standards of nursing care in these populations and consists of 160 nursing practice hours. *Prerequisite(s): NURS 2103, NURS 2203, NURS 2403, NURS 2413, NURS 2903.*

**NURS 3103 Professional Formation of Nursing 2**
This course builds on the foundational knowledge acquired in Professional Formation 1, which is designed to assist students in developing a professional identity as a registered nurse (RN). Students will be provided with the opportunity to identify, analyze, and integrate concepts that define and underpin professionalism. *Prerequisite(s): NURS 3303, NURS 3313, NURS 3503, NURS 3906.*

**NURS 3303 Health and Illness 2**
This course explores the nursing of individuals and families experiencing acute health challenges across the lifespan. Using evidence-based research, students will explore the role of the professional nurse in caring for individuals and families encountering these health challenges. Through a process of critical inquiry and relational practice, biopsychosocial responses related to the acute phase of illness across the lifespan are analyzed. *Prerequisite(s): NURS 2303, NURS 2213, NURS 2503, NURS 2513, NURS 2913.*

**NURS 3313 Health and Illness 3**
This course will explore health and illness concepts, with an emphasis on the acute biopsychosocial conditions across the lifespan. Evidence informed research is the foundation for the application of nursing care within the context of person, families and communities. Concepts covered are related to the biopsychosocial responses to acute illness across the lifespan. *Prerequisite(s): NURS 2303, NURS 2213, NURS 2503, NURS 2513, NURS 2913.*

**NURS 3323 Health & Illness 4**
This course will explore health and illness concepts, with an emphasis on the chronic biopsychosocial conditions across the lifespan. Evidence-informed research is the foundation for the application of nursing care within the context of person, families, and communities. Concepts covered are related to the biopsychosocial responses to chronic illness. *Prerequisite(s): NURS 3303, NURS 3313, NURS 3503, NURS 3906.*

**NURS 3503 Nursing Research Methods**
This course will introduce students to the research process as it relates to nursing and other health disciplines. Concepts of research design, implementation, analysis and interpretation are studied in the context of the steps of the research process. The course requires students to become immersed in the language and culture of research and to understand the broader context in which nursing research is conducted. Emphasis is placed on the student's potential role as a generator of researchable questions, as a collaborator in research related to nursing practice and as an intelligent consumer of research. *Prerequisite(s): NURS 2303, NURS 2213, NURS 2503, NURS 2513, NURS 2913.*

**NURS 3906 Nursing Practice Integration 3: Acute Health Challenges Across the Lifespan**
This course will integrate students' understanding and knowledge of nursing concepts related to the care of persons and families experiencing acute health challenges in a variety of settings across the life span. Acute health challenges may include delirium, fluid and electrolyte imbalances, Acute Coronary Syndrome, acute renal failure, anxiety, meningitis, septicemia, pancreatitis, psychosis and mood disorders. Students will apply knowledge and demonstrate practical skill application of concepts/exemplars related to these health challenges in a variety of nursing practice settings. This course will consist of 240 hours of direct nursing practice on and off campus. *Prerequisite(s): NURS 2303, NURS 2213, NURS 2503, NURS 2513, NURS 2913.*

**NURS 3916 Nursing Practice Integration 4**
Nursing Practice Integration 4 will integrate professional nursing concepts related to a variety of settings inclusive of all ages across the lifespan. Students will care for persons and families in acute care, long term care and community care settings. The practice will broaden students' understanding of professional nursing competencies and standards of nursing care required in a variety of populations and across a variety of settings. This course will consist of 240 nursing practice hours. *Prerequisite(s): NURS 3303, NURS 3313, NURS 3503, NURS 3906.*

**NURS 4103 Professional Formation 3**
This course will focus on the development of a professional nursing identity as a continuous process and builds upon dynamic and fluid process by introducing and integrating previous and new educational and nursing practice concepts that lead to self-reflection and foster the formation of students' identity as a professional Registered Nurse (RN). *Prerequisite(s): NURS 3103, NURS 3323, NURS 3916.*

**NURS 4503 Nursing Theory and Practice Synthesis: Health - Illness Continuum**
This course is designed to foster integration and synthesis of prior learning in nursing theory and practice. Using a case study approach, students will explore complex and emerging health and illness issues in diverse populations throughout the lifespan. Students will trace a variety of prevailing health issues among their clients which may include an individual, a family, a community, or a specific population across the different stages of the health - illness continuum, including health promotion, prevention, health

protection, health maintenance, restoration, and palliation. *Prerequisite(s): NURS 3103, NURS 3323, NURS 3916.*

**NURS 4703 Special Topics in Nursing**
In depth study of a selected topic in the field. Special topics or projects that are not covered in the regular curriculum.

**NURS 4813 Directed Study & Practice Nursing**
This course is a supervised study of current knowledge and practice in a selected topic in Nursing.

**NURS 4906 Nursing Practice Integration 5: Synthesis of Professional Nursing Concepts**
Nursing Practice Integration 5 uses a population health approach to promote synthesis of prior learning presented in Terms 1-6. Students will demonstrate leadership in professional nursing practice by providing excellent nursing care and by demonstrating the ability to develop a health program plan to guide the nursing care of their clients which may include an individual, a family, a community, or a specific population experiencing prevailing health and illness challenges in the student's particular practice area. Health program plans can be applied to health problems across any stage of the health-illness continuum, including health promotion, prevention, health protection, health maintenance, restoration, and palliation. Sample placement for students include various community health settings, acute care settings, rural or remote communities, hospice, government agencies, public health, professional bodies, or long- term care. This course consists of 240 hours of supervised preceptored nursing practice. *Prerequisite(s): NURS 3103, NURS 3323, NURS 3916.*

**NURS 4915 Nursing Practice Integration 6**
Nursing Practice Integration 6-Transition to Nursing Practice is the final course of the BScN program. This course is a preceptored nursing practice with supervision from Nursing Faculty or Nursing Practice Educator. This course will integrate nursing knowledge and entry-level competencies throughout the reality work life dimension and understanding of the scope and role of the Registered Nurse assisting the nursing students' transition to the graduate nurses' role. Relational nursing practice experiences will emphasize the role of the professional nurse and continue to build intra- and inter professional relationships within the professional health care team. Bridging theory to practice and self-directed learning will prepare students for National Council Licensure Examination (NCLEX-RN) and ongoing professional development. The senior level consolidation is 480 hours over a period of up to 13 weeks of preceptored nursing practice is in a setting of the students' choice, and/or in consultation with the course professor. *Prerequisite(s): NURS 4103, NURS 4503, NURS 4906.*

## Nutrition

**NUTR 1313 Human Nutrition 1**
An examination of: the evidence-based principles of healthy eating; food consumption patterns and trends; digestion, absorption, metabolism, and food sources of macronutrients essential to human health; and energy metabolism and balance. *Restricted to Nutrition majors.*

**NUTR 1323 Human Nutrition 2**
An examination of the food sources, digestion, absorption and metabolism of micronutrients essential to human life, and the application of macro and micronutrients to nutrition through the life cycle. Students will also learn how to identify, consult, and evaluate sources of nutrition literature. *Prerequisite(s): NUTR 1313, OR for non-nutrition majors NUTR 1503 and permission of the Director of the School.*

**NUTR 1333 Food 1**
A study of the scientific principles underlying processing and preparation of food commodities, including vegetables, fruit, milk, cheese, grains, and eggs. Additional topics are food preservation, colloids, sols, and gels. (3h lab). Restricted to Nutrition majors, or permission of School. *Corequisite(s): NUTR 1330L.*

**NUTR 1343 Food 2**
A continuation of the study of the scientific principles underlying processing and preparation of food commodities including cereal, meat, fish, poultry, baked goods, and beverages. Additional topics are the Canadian Nutrient File and the use of nutrient analysis software programs. (3h lab). *Prerequisite(s): NUTR 1333. Corequisite(s): NUTR 1340L.*

**NUTR 1353 Food Commodities 2 for Family Studies**
A study of the basic scientific principles underlying the processing of food commodities including cereal grains, dairy products, and eggs. Additional topics will include food additives, labelling and food security. Practicum experience will be integrated into the lectures. Students in the Bachelor of Science in Nutrition program will not be eligible to take this course.

**NUTR 1503 Understanding Nutrition**
The basis of food selection for health. The course stresses evaluation of personal nutrient intake, especially carbohydrate, fat, and protein, in relation to needs for active living, weight management, and chronic disease prevention. Issues will be discussed within a contemporary context. Open to non-nutrition majors only.

**NUTR 2013 Principles of Nutritional Assessment**
Covers the major principles of, and methods used in, nutritional assessment of individuals and populations including anthropometric, biochemical, clinical, and dietary approaches, eating environments and experiences, consideration of access to and meanings of food, and influences of family/others on food intakes, gender, and genomics. *Prerequisite(s): NUTR 1323.*

**NUTR 2023 Communications in Nutrition and Dietetics**
A study of teaching and learning theory as these apply to food and nutrition-related communications when working with individuals, groups, and the public. Topics covered include application of program planning theory and client-centeredness in assessing needs of target audience(s), effective oral, written, and interpersonal communications, resource development to align with learning needs, and evaluation of communication approaches. *Prerequisite(s): NUTR 2013.*

**NUTR 2323 Food and People**
An examination of the relationship between food and human culture through a biocultural framework. Students will examine social, economic, and ecological factors affecting, and affected by, food practices and systems. Global and local food production, preparation, processing, distribution and waste management, as well as social justice, gender, diversity, equity, and cultural competence are covered. Open to Nutrition majors and majors/minors of the Women's and Gender Studies program, and Environmental and Sustainability Studies (ESST) students.

**NUTR 2333 Understanding Food Science**
The course will introduce important food science concepts including principles involved in the processing, handling and storage of foods. It will include a broad range of topics in food science and technology including the relationship of science and technology in food processing, the functional properties of major food attributes, food engineering, food law and career opportunities within the food industry. *Prerequisite(s): BIOL 1113 or BIOL 1813, CHEM 1023.*

**NUTR 2613 Food Resource Management**
A study of food both as a resource to be managed and as a consumer good for which other resources are expended. Topics will include the environmental aspects of food production, laws and regulations governing food products, global distribution of food resources, and the cause and effect of consumer demand for food products. *Prerequisite(s): NUTR 1323, NUTR 1343.*

**NUTR 3013 Nutrition and Health Research**
A study of the principles and application of the research process related to nutrition and health. Focus of the course includes identifying a research problem, searching the literature, devising a protocol, and selecting methods of analysis. Ethical and other considerations will be discussed. These principles will be applied in the preparation of a research proposal. *Prerequisite(s): MATH 1223 or MATH 2243 or MATH 2253, NUTR 1323, third-year standing or permission of School.*

**NUTR 3023 Advanced Human Nutrition**
Recent developments in human nutrition. The integration of nutrition, biochemistry and physiology is stressed. Independent survey of periodical literature in this field. *Prerequisite(s): BIOL 2823, NUTR 1323, CHEM 2713 or CHEM 2773.*

**NUTR 3033 Sustainability, Food Systems and Health**
A critical exploration of the foundational concepts of sustainability, food systems and dietary patterns in the context of human health and nutrition. Students will examine current research and practice to better understand how the issues are being conceptualized and addressed. *Prerequisite(s): NUTR 1323, NUTR 2323.*

**NUTR 3513 Community Nutrition**
Examination of the essential principles in program planning, development, delivery, assessment, and evaluation in community nutrition. Includes strategies for implementing programs across and within select populations. There will be a focus on the social determinants of health, and a sharing of tools and skills for engaging the communities in nutrition and health issues that impact them. *Prerequisite(s): NUTR 1323, NUTR 2023.*

**NUTR 3523 Nutrition and Aging**
A study of the changing nutritional needs of seniors, and of factors that influence nutritional status of seniors in community and care settings. *Prerequisite(s): NUTR 2013.*

**NUTR 3533 Sports Nutrition**
This course will cover food and nutrient recommendations applied to athlete health and performance. *Prerequisite(s): NUTR 1503 with a minimum grade of B- or NUTR 1313.*

**NUTR 3553 Professional Practice in Dietetics**
An investigation of current professional practice issues as they relate to food, nutrition and dietetic practice. Topics covered in this course will include professional practice concepts; Integrated Competencies for Dietetic Education and Practice (ICDEP); standards of dietetic practice in Canada; ethical, legal and regulatory issues related to dietetic practice; inter-professional learning; leadership; conflict resolution, reflective practice and professional development. *Prerequisite(s): NUTR 2023.*

**NUTR 3883 Directed Readings in Nutrition**
Readings and discussions in a selected area under the direction of a faculty member. Intended primarily for students in third and fourth year.

**NUTR 3933 Advanced Sports Nutrition**
An in-depth examination of the relationship between nutrition and athletic performance, with a focus on recent advances in macro and micronutrient requirements, sources, functions, and interactions. Students will explore and apply leading edge theory in high performance nutrition with athletes in a variety of sports. *Prerequisite(s): NUTR 3533.*

**NUTR 4013 Management in Dietetics 1**
Food Service production and distribution, sanitation, safety, quantity food preparation, strategic planning, menu planning, quality management, risk management, marketing and financial management are examined. Management principles and theory, human resource management and the use of computers as related to food service operations are introduced. (12 hours of Lab Orientation and Safety tutorials in NUTR 4013 plus a maximum of ten 6 hour labs – spread across NUTR 4013 and NUTR 4023). *Prerequisite(s): NUTR 1343 and fourth-year standing or permission of School. Corequisite(s): NUTR 4010L.*

**NUTR 4023 Management in Dietetics 2**
Organizational culture, behaviour and the management of human resources are examined. The planning and design of food service operations, including equipment selection, are reviewed. The procurement, production, and storage of food in quantity are explored. Environmental and ethical considerations are discussed. (A maximum of ten 6 hour labs – spread across NUTR 4013 and NUTR 4023). *Prerequisite(s): NUTR 4013. Corequisite(s): NUTR 4020L.*

**NUTR 4033 Dietetic Practicum 1**
A 16-week full-time professional practicum in community and institutional settings where, under the supervision of the Acadia Dietetic Practicum Coordinator, students work with preceptors to achieve nationally set competencies. Development of a practice-based research project proposal is required. *Prerequisite(s): B- in each of NUTR 1323, NUTR 1343, NUTR 2013 and NUTR 2023, third-year standing and acceptance into the Dietetic Practicum Program.*

**NUTR 4043 Dietetic Practicum 2**
A 32-week full-time (minimum) professional practicum in community and institutional settings where, under the supervision of the Acadia Dietetic Practicum Coordinator, students work with preceptors to achieve nationally set competencies. A practice-based research project and completion of a research seminar are required components of this practicum course. *Prerequisite(s): NUTR 4033.*

**NUTR 4053 Topics in Obesity**
Social and anthropological, biological, cultural, socioeconomic, and evolutionary influences on human body composition and energy imbalance. Highly interactive and discussion-based learning. *Prerequisite(s): NUTR 3513.*

**NUTR 4063 Affecting Change in Nutrition and Dietetics**
This course is a study of the nature and history of leadership as it relates to social change in health and human services generally, and nutrition and dietetics specifically. *Prerequisite(s): NUTR 3513.*

**NUTR 407T Honours Thesis 1**
The Honours Thesis provides an opportunity for a student, under the guidance of a supervisor, to select a research topic, conduct a literature review of the topic, write a research proposal, carry out the research, and present it in a professional manner both orally and as a written thesis. *Prerequisite(s): NUTR 3013.*

**NUTR 408T Honours Thesis 2**
The Honours Thesis provides an opportunity for a student, under the guidance of a supervisor, to select a research topic, conduct a literature review of the topic, write a research proposal, carry out the research, and present it in a professional manner both orally and as a written thesis. *Prerequisite(s): NUTR 407T.*

**NUTR 4083 Independent Study**
A substantial scholarly study chosen in consultation with a faculty advisor to reflect student interest. Such a study may be based on field, laboratory or library study. Intended primarily for qualified students with a defined and approved research interest.

**NUTR 4103 Food Analysis**
An introduction to the methods used to analyze food for nutrients and quality properties, and the advantages and disadvantages of different analytic methods. Emphasis will be placed on modern technologies being used in the food industry (3h lab). *Prerequisite(s): CHEM 2713 or CHEM 2773. Corequisite(s): NUTR 4100L.*

**NUTR 4123 Nutrition Education**
This course examines principles of nutrition education, including program design and implementation, theories of behaviour change, and methods and strategies across the lifespan. *Prerequisite(s): NUTR 1323, NUTR 3513.*

**NUTR 4223 Sensory Evaluation of Food**
Principles involved in the evaluation of the appearance, taste, smell and texture of foods, with an emphasis on their role in food product development. Evaluation approaches, including consumer and analytical tests are covered in theory and in practice. The laboratory component includes a research project on sensory attributes of foods. (3h lab). *Prerequisite(s): MATH 1223 or MATH 2243 or MATH 2253, NUTR 1343. Corequisite(s): NUTR 4220L.*

**NUTR 4313 Applied Sports Nutrition 1**
A practical course that applies cumulative knowledge in nutrition to the varsity athletic setting, with supervision and support. Focus will be on supporting athletes to manage the interaction between the training program and food choices including meals, pre, during and post training, nutrition strategies, and analysis of dietary intake of the athletes in the context of athletic performance. *Prerequisite(s): NUTR 3533, NUTR 3933 and permission of instructor.*

**NUTR 4323 Applied Sports Nutrition 2**
This practical course combines research projects that incorporate knowledge and critical discourse in sport nutrition to the varsity athletic setting with supervision and support. Building on knowledge gained in Applied Sports Nutrition 1, students will be engaged in hands-on research projects that will contribute to their knowledge and application in the field of sport nutrition. *Prerequisite(s): NUTR 4313 and permission of instructor.*

**NUTR 4513 Nutrition in Global Health and Development**
This course will enable the student to identify the role of nutrition in facilitating global health and development and debate the issues around setting of priorities at home and abroad. It will provide opportunities to formulate and analyze approaches for mobilizing community participation in nutrition and health care. *Prerequisite(s): NUTR 1323, NUTR 2323, NUTR 3513 or permission of School.*

**NUTR 4533 Nutrition and Disease 1**
Epidemiology, pathophysiology and the role of medical nutrition therapy in the management of selected chronic conditions. Practical applications are explored through case studies. *Prerequisite(s): BIOL 2823, NUTR 2013, NUTR 3023.*

**NUTR 4543 Maternal and Infant Nutrition**
The importance of nutrition to the outcome of pregnancy. Topics include: physiology of pregnancy and lactation; nutritional requirements and food habits of pregnant women; methods of feeding, nutritional requirements and growth and development of the infant and preschooler. *Prerequisite(s): BIOL 2823, NUTR 1323.*

**NUTR 4553 Nutrition and Disease 2**
A continuation of NUTR 4533. Epidemiology, pathophysiology and the role of medical nutrition therapy in the management of gastrointestinal, renal, hepatic, respiratory diseases and catabolic states will be addressed. Application of parenteral and enteral nutrition support systems will be introduced and applied along with ethical issues in nutrition management of disease. Practical applications are studied in case studies. *Prerequisite(s): NUTR 4533.*

**NUTR 4733 Food Product Development**
The chemical, procedural and technological aspects of food product development. The functionality of food ingredients in relation to the formulation of food products is covered. Evaluation techniques employed in measuring the physical and sensory attributes of food systems are included. (3h lab). *Prerequisite(s): NUTR 1343. Corequisite(s): NUTR 4730L.*

**NUTR 4903 Senior Seminar**
Evaluation of current research literature and its application to nutritional issues. Literature review, written and oral presentation of an independent study on a current topic of concern in nutrition. *Prerequisite(s): NUTR 4223 with a minimum grade of C- and fourth-year standing in nutrition*.

**NUTR 4913 Special Topics in Nutrition**
In depth study of a selected topic in the field. Designed to enable students to take advantage of a particular expertise of visiting or permanent faculty. *Prerequisite(s): NUTR 1323 and permission of School.*

## Philosophy

**PHIL 1106 Introduction to Philosophy**
An introduction which focuses on philosophy as a rigorous problem-solving discipline. After asking about the nature of philosophy itself, we will tackle philosophical problems concerning language, logic, identity, knowledge, morality, and God. We will work throughout to master the logical skills necessary not only for good philosophizing but for clear thinking on any topic. *Students may register for no more than 6h at the 1000-level.*

**PHIL 1113 The Examined Life in the Information Age**
This course offers an exploration of major philosophical themes in the context of the emerging technological and information revolution. We will explore subjects that include 1) challenges to autonomy in an age of mass culture, 2) the effects of integrated media, 3) the philosophical shift from citizen to consumer, and 4) the moral implications of the uses and abuses of technology. *Students may register for no more than 6h at the 1000-level.*

**PHIL 1413 Introduction to Philosophy: God, Ethics and Justice**
In this course, the student is introduced to philosophy through a series of shorter philosophical excerpts from a variety of authors and periods. The focus will be on three issues: whether a divine being exists, how to understand the nature of ethical standards, and what constitutes political justice. The goal throughout is to develop skills of critical analysis and self-expression, while coming to understand some of our culture's most influential thinkers. *Students may register for no more than 6h at the 1000-level.*

**PHIL 1423 Introduction to Philosophy: Freedom, Mind and Knowledge**
In this course, the student is introduced to philosophy through a series of shorter philosophical excerpts from a variety of authors and periods. The focus will be on three issues: whether humans genuinely exercise free choice, how to understand the relation between body and mind, and what constitutes human knowledge. The goal throughout is to develop skills of critical analysis and self-expression, while coming to understand some of our culture's most influential thinkers. *Students may register for no more than 6h at the 1000-level.*

**PHIL 2003 Ancient Philosophy: The Pre-Socratics to Plato**
This course is an introduction to the earlier phase of Ancient Philosophy. We will examine some of the remaining fragmentary texts from

the pre-Socratics. The main focus will be on the doctrines of Socrates and Plato, especially in the areas of ethics and metaphysics. *Antirequisite(s): Credit can be obtained for only one of PHIL 2003 or PHIL 2006.*

**PHIL 2033 Ancient Philosophy: Aristotle and the Hellenistic Philosophers**
This course is an introduction to the later phase of Ancient Philosophy. The main focus will be on the doctrines of Aristotle, especially in the areas of metaphysics and natural science, but we will also examine the Stoic and Epicurean schools of thought. *Antirequisite(s): Credit can be obtained for only one of PHIL 2033 or PHIL 2006.*

**PHIL 2103 Aesthetics**
In this introduction to aesthetics, a number of philosophically important questions provoked by art will be addressed. The course will cover both classical and contemporary responses to these questions and will focus on such issues as the definition of "art," the objectivity of claims about beauty and artistic worth, and the nature of the creative process.

**PHIL 2113 Early Modern Philosophy: The Rationalists**
This course explores the wide-ranging philosophical contributions of the rationalist tradition during the formative 17th and 18th centuries. It offers a close reading of rival metaphysical systems, examining thinkers such as Descartes, Spinoza, and Leibniz. Topics include the nature of substance, the relation of mind and body, the existence of God, and the idea of free will, among others. *Antirequisite(s): PHIL 2016.*

**PHIL 2123 Early Modern Philosophy: The Empiricists**
This course explores the wide-ranging philosophical contributions of the empiricist tradition during the formative 17th and 18th centuries. Philosophers such as Locke, Berkeley, and Hume are examined in connection with issues that include the nature of knowledge, personal identity, the cogency of religious belief, the problem of causality, and the conceptual groundwork that launched our modern scientific worldview. *Antirequisite(s): PHIL 2016.*

**PHIL 2223 Existentialism**
The Existentialist "revolt" in philosophy was an attempt to focus attention on the implications of modern Western society for the individual who must live in that society. The origins of this movement, as well as its influence in theology, psychology, and the arts will be examined.

**PHIL 2233 Philosophy and Feminism**
Feminist philosophy became a major voice in the twentieth century, challenging many traditional views in areas as diverse as politics, ethics, aesthetics, and the theory of knowledge. Drawing primarily on writings by women, the major developments of feminist thought will be studied. The relation of feminism to other contemporary philosophical movements such as Marxism, Pragmatism, Existentialism, and Post-Modernism will also be considered.

**PHIL 2303 Philosophy of the Environment**
This course addresses conceptions of the relationship between humans and nature. The course will foster an analytic approach to environmental issues while recognizing the broad range of social, scientific, and philosophical themes involved. The aim will be to develop a clear and comprehensive understanding of environmental issues, an understanding which can serve as the basis for ethical and critical evaluation of the consequences of human actions for the environment.

**PHIL 2313 Ethical Theory**
This course examines some of the central ethical theories of the Western tradition, including consequentialism, deontology, virtue theory, social contract theory, theories of justice, egoism, relativism, ethics of care. We consider the nature of moral values, what motivates moral behaviour, how to justify moral beliefs, the role of reason, emotions, society and the desire for happiness in moral decision-making. *Antirequisite(s): PHIL 2306.*

**PHIL 2323 Ethics in the World**
After briefly examining some influential ethical theories, we consider how they may be applied to concrete ethical issues of current interest. Specific topics studied will vary but generally address moral problems concerning medicine, law, technology, business, the environment, gender, culture, rights, and social policy. Students will learn effective strategies for thinking deeply and critically about practical moral issues. *Antirequisite(s): PHIL 2306.*

**PHIL 2403 Philosophy of Religion**
This course addresses philosophical issues raised by traditional belief in God. Why care whether God exists? Why care whether belief in God is rational? Does the rationality of belief in God depend on the evidence for, and against, God's existence? What is the best evidence for and against? What bearing does God have on human morality?

**PHIL 2503 Medieval Philosophy**
A study of theoretical problems posed by the conjunction of revealed religion and philosophy from the third century C.E. to the Renaissance. The ideas of the central figures will be examined through selections of original sources and discussions of themes (e.g., knowledge of God, theory of knowing, theory of being).

**PHIL 2553 Social and Cultural Philosophy of the Nineteenth Century**
Nineteenth-Century thought shifted from the natural to the social sciences, focusing on the self and its relation to society. Topics considered in connection with this theme include self-consciousness, mind, will, the embodied self, knowledge of reality, spirituality and living nature, theories of art, culture, freedom, political order, individual vs state, capitalism vs socialism, origins of feminism and philosophy of race. *Antirequisite(s): Credit can be obtained for only one of PHIL 2553 or PHIL 3023.*

**PHIL 2713 Biomedical Ethics**
This course provides an introduction to ethical issues in health care and medical research, and it also surveys some of the relevant laws and social policies. Topics include abortion, assisted death, allocation of scarce resources, cloning, decisional capacity and informed consent, genetic enhancement, human and animal experimentation, and stem cell research. *Prerequisite(s): One year of university study. Antirequisite(s): Credit can be obtained for only one of PHIL 2713 or BIOT 3473.*

**PHIL 2803 Metaphysics**
We will explore such metaphysical issues as the following: What is causation? Are there non-existent things? Can there be ordinary physical objects in spite of their vagueness? Can distinct physical things coincide in space and time? Are there possible worlds besides the actual world? Is time-travel possible? Is the passing of time an illusion? *Prerequisite(s): One year of university study.*

**PHIL 2813 Logic and Critical Thinking**
Introduction to logic with emphasis upon the analysis and evaluation of non-deductive reasoning. No previous philosophy courses required.

**PHIL 2823 Symbolic Logic**
Introduction to symbolic logic. Symbolism is developed for the analysis and evaluation of arguments. No previous philosophy courses required.

**PHIL 2913 Philosophy of Science**
An introduction to the philosophical foundations of scientific theories. Topics to be discussed include the interpretation and confirmation of scientific theories, reduction, scientific explanation, causation and laws. The course raises conceptual issues which fall between science and philosophy, as well as broader epistemological issues concerning theory change and the concept of progress in science.

**PHIL 2923 Philosophical Issues in Science and Technology**
Students are shown the relevance of philosophical analysis to current issues in science and technology. This course explores the metaphysical, epistemological, and ethical underpinnings of topics such as: human enhancement, artificial intelligence, brain-computer interfacing, gene editing, robotic engineering, machine ethics, human and machine consciousness, neuroethics, the ethics of space exploration, human and planet health, biological individuality, and the species problem.

**PHIL 3013 Philosophy in Literature**
A study of philosophical themes in major works of literature. The modality of literary works may range over novels and plays as expressed in texts and filmed productions. Philosophical problems and approaches to free will, fate, death, transcendence, truth, moral engagement, tragedy, and the conditions of human flourishing will be explored. *Prerequisite(s): 6h of PHIL or permission of the Department.*

**PHIL 3113 Kant: The Critique of Pure Reason**
Students will be introduced to the foundations of Kant's critical philosophy through close examination of selected passages in the first Critique. An introduction to topics in the secondary literature on Kant may also be provided. *Prerequisite(s): 6h of PHIL or permission of the Department.*

**PHIL 3203 Philosophy of Law: Rights, Laws and Judges**
This course explores the question of constitutional rights. What rights should our constitution provide? Can constitutional provisions be given a strict legal interpretation, or does constitutional interpretation require judges to apply their own moral beliefs? Should unelected judges have the authority to strike down legislation just because, in their view, it violates rights such as freedom of expression and equality? *Prerequisite(s): One year of university study.*

**PHIL 3213 Philosophy of Law: Private Law**
This course is a philosophical treatment of issues in the private law of tort and contract. Tort law is concerned with personal injury. Is fault the right way of looking at this issue? Perhaps a robust form of social insurance provides a better approach to injuries. Moreover, which contracts count as fair? When should contracts be reversed by the courts? *Prerequisite(s): One year of university study.*

**PHIL 3223 Kantian Practical Reason**
Kant aims to reveal that the demands of morality apply equally to all, irrespective of empirical considerations such as race, ethnicity, culture and religion, among others. In an age of moral fragmentation, the Kantian model offers the optimistic promise of a shared moral community, with reciprocal moral rights and obligations. *Prerequisite(s): 6h of PHIL or permission of the Department.*

**PHIL 3313 Philosophy of Mind**
An examination of some contemporary accounts of the nature of mind and its relation to the body. Topics to be covered will include mind-body identity theory, logical behaviourism, functionalism, and the idea of personal identity. *Prerequisite(s): 6h of PHIL or permission of the Department.*

**PHIL 3553 Contemporary Analytic Philosophy**
A survey of major landmarks in the development of contemporary analytic metaphysics, epistemology, and philosophy of language, and a critical examination of some central issues. *Prerequisite(s): 6h of PHIL or permission of the Department.*

**PHIL 3613 Contemporary Continental Philosophy**
A study of the work of three or four European thinkers, such as Heidegger, Foucault, Derrida, Wittig, Habermas, Cixous, Gadamer,

Deleuze, Benjamin and Adorno, considering such issues as the nature of power in society, the relation between art and politics, hermeneutics and deconstruction, gender and self-identity, alienation and human freedom, and feminist politics.

**PHIL 3713 Advanced Biomedical Ethics: Death and Dying**
The course explores ethics, law, and social policy of end of life care and assisted death. Students are introduced to various philosophical and religious accounts of both death and suicide. From here, the course moves to contemporary debates about the provision of assisted death (known in Canada as MAID, Medical Assistance in Dying). *Prerequisite(s): Two years of university study.*

**PHIL 3903 Epistemology**
A systematic examination of central topics in contemporary theory of knowledge: What is it to know anything? What kinds of knowledge are there? What are the sources of knowledge? Are there limits to what can be known? Does knowledge require foundations? Under what conditions are we entitled to advance knowledge-claims? What is the relation between knowing, believing and having reasons for belief? *Prerequisite(s): 6h of PHIL or permission of the Department.*

**PHIL 407T Honours Thesis 1**

**PHIL 408T Honours Thesis 2**
*Prerequisite(s): PHIL 407T.*

**PHIL 4113 Topics in Social and Political Philosophy**
This course examines selected concepts, themes, or traditions within the field of social and political philosophy. Specific course content in any given year will be available from the Philosophy Department. *Prerequisite(s): 6h of PHIL or permission of the Department.*

**PHIL 4853 Philosophical Topics**
An opportunity to do advanced study of a particular philosophical issue, thinker or period. The content will vary yearly. *Prerequisite(s): 6h of PHIL or permission of the Department.*

**PHIL 4913/23 Directed Readings in Philosophy 1/2**

## Physics

Note: the second digit of each physics course number specifies the following: 0-General,
1-Mechanics, 2-Electromagnetism, 3-Thermodynamics, 4-Quantum Physics, 5-Special Topics, 6-Laboratory-based course.

**PHYS 1013 Introductory Physics 1**
Classical mechanics, including kinematics, dynamics, energy, systems of particles, rotational motion, oscillations, waves and sound. Topics are developed using vectors and elementary calculus. (3h lab) *Prerequisite(s): Physics 12 recommended. Prerequisite/Corequisite(s): MATH 1013. Antirequisite(s): Only one of PHYS 1013 or PHYS 1053/PHYS 1063 can be offered for credit.*

**PHYS 1023 Introductory Physics 2**
Electric and magnetic fields and modern physics. Topics include Gauss's law, electric potential, capacitors, Ohm's law, D.C. circuits, Faraday's law, inductance, and topics in modern physics. (3h lab). *Prerequisite(s): PHYS 1013 or PHYS 1063. Prerequisite/Corequisite(s): MATH 1023.*

**PHYS 1053 General Physics 1**
A general, non-calculus introduction to physics. Topics from classical mechanics such as one-dimensional kinematics, vectors, projectile motion, dynamics, energy, momentum, rotation, oscillations and vibrations, and an introduction to wave properties of light and sound. Applications from the fields of geology, biology, the health and environmental sciences are introduced as appropriate. (3h lab) *Prerequisite(s): Mathematics 12. Antirequisite(s): Only one of PHYS 1013 or PHYS 1053/PHYS 1063 can be offered for credit.*

**PHYS 1063 General Physics 2**
A continuation of PHYS 1053; a general, non-calculus introduction to physics. Topics include a continuation of waves, sound, light and optics, electricity, magnetism, fluids, thermal properties of matter, and/or modern physics. Applications from the fields of geology, biology, the health and environmental sciences are introduced as appropriate. (3h lab). *Prerequisite(s): PHYS 1013 or PHYS 1053. Antirequisite(s): Only one of PHYS 1013 or PHYS 1053/PHYS 1063 can be offered for credit.*

**PHYS 1513 Astronomy 1 - Observational Methods and Solar System**
This course is the first part of a general introduction to astronomy. It emphasizes the night sky and objects in our solar system. The instructor discusses space science, telescopes, cameras and other instruments used in the study of astronomy. Observation sessions are included. *Antirequisite(s): Credit can be obtained for only one of PHYS 1513 and IDST 1703. PHYS 1513 may not be offered as a credit for a physics major.*

**PHYS 1523 Astronomy 2 - Stars, Galaxies and the Universe**
This course is the continuation of Astronomy 1. Starting with the study of the sun, our nearest star, the course ventures into the realm of exploding stars, pulsars, black holes and other exotic phenomena in the universe. Other topics include star formation, nuclear fusion, nucleosynthesis and stellar evolution. Observation session will be held as weather permits. *Prerequisite(s): PHYS 1513. Antirequisite(s): Credit can be obtained for only one of PHYS 1523 or IDST 1703. PHYS 1523 may not* be *offered as a credit for a physics major.*

**PHYS 1543 Energy**
Topics include a physical perspective of energy, sources of energy, constraints on energy use, predictions of energy demand, electric utility system, energy conversions, issues in energy resources and resources in support of the energy economy, details of different power plants, alternate energy sources such as wind, solar, small-scale hydro, and the consequences of our choices. *PHYS 1543 may not be offered as a credit for a physics major.*

**PHYS 1553 Physics of Music**
An introduction to physics and psycho-physics of music. Topics include pitch, loudness and timbre; music production including modes of oscillation of mechanical systems, resonance, feedback, transmission and reflection; human voice and ear; modern methods of sound production using electrical analogue devices and digital computers; room reverberation and acoustics. *PHYS 1553 may not be offered as a credit for a physics major.*

**PHYS 1563 Physics and the Environment**
A survey of selected physics topics with applications to the environment. Topics include a foundational introduction to forces and energy, fluids, vibrations and waves, light and optics, sound and acoustics, thermodynamics, electricity and magnetism, power systems and energy sources, and radioactivity. (3h lab). *PHYS 1563 may not be offered as a credit for a physics major.*

**PHYS 2113 Classical Mechanics with Labs**
Vector calculus is employed in Newtonian mechanics. Attractive for students wishing to experience the power of mathematics as a tool in describing easily-visualizable phenomena. Problems such as oscillations, motion under a central force, the two-body problem and motion in a rotating coordinate system are analyzed. (3h lab). *Prerequisite(s): PHYS 1023 or equivalent, and MATH 2723 or MATH 2023. Prerequisite/Corequisite(s): MATH 2753 or MATH 2013. Antirequisite(s): Credit can be obtained for only one of PHYS 2113 or PHYS 2123.*

**PHYS 2123 Classical Mechanics**
Vector calculus is employed in Newtonian mechanics. Attractive for students wishing to experience the power of mathematics as a tool in describing easily-visualizable phenomena. Problems such as oscillations, motion under a central force, the two-body problem and motion in a rotating coordinate system are analyzed. *Prerequisite(s): PHYS 1023 or equivalent, and MATH 2723 or MATH 2023. Prerequisite/Corequisite(s): MATH 2753 or MATH 2013. Antirequisite(s): Credit can be obtained for only one of PHYS 2123 or PHYS 2113.*

**PHYS 2203 Introductory Electronics**
This course introduces the student to basic circuit theory and the fundamentals of linear electronics. The emphasis will be on designing and building practical circuits such as power supplies, amplifiers and filtering/signal processing circuits. Theory will be introduced to explain the behaviour of modern semiconductors. (6h combined lecture and lab). *Prerequisite(s): PHYS 1023 or PHYS 1063, or equivalent background in electricity.*

**PHYS 2213 Data Acquisition, Measurement, and Control**
Computer based data acquisition and process control is used extensively in science and engineering. This course introduces students to the techniques required to use computers to read, store and analyze experimental data as well as controlling experiments in real time. Topics covered include a programming language, computer architecture, signal conditioning and processing, and a variety of interfacing techniques. A major component of the course is an extended project involving interfacing a computer to an experiment. A rudimentary knowledge of computer programming is recommended. (6h combined lecture and lab). Cross-coded as CHEM 4833. *Prerequisite(s): PHYS 2203 or permission of the instructor. Antirequisite(s): Credit can be obtained for only one of PHYS 2213 or CHEM 4833.*

**PHYS 2413 Modern Physics with Labs**
Covers topics such as special relativity, de Broglie waves, particle diffraction, wave particle duality, indeterminacy, and the correspondence principle. Schrodinger's equation is introduced and solved for simple physical systems with applications to atoms and molecules. Good preparation for advanced courses requiring quantum physics or teaching high school. (3h lab). *Prerequisite(s): PHYS 1023. Antirequisite(s): Credit can be obtained for only one of PHYS 2413 or PHYS 2423.*

**PHYS 2423 Modern Physics**
Covers topics such as special relativity, de Broglie waves, particle diffraction, wave particle duality, indeterminacy, and the correspondence principle. Schrodinger's equation is introduced and solved for simple physical systems with applications to atoms and molecules. Good preparation for advanced courses requiring quantum physics or teaching high school. *Prerequisite(s): PHYS 1023. Antirequisite(s): Credit can be obtained for only one of PHYS 2423 or PHYS 2413.*

**PHYS 2523 Optics**
Selected topics in geometrical and physical optics are studied in detail to give both a knowledge of the basic phenomena associated with the propagation of light waves, and an appreciation of the design and limitations of optical instruments. *Prerequisite(s): PHYS 1013 or PHYS 1053, MATH 1013.*

**PHYS 3113 Advanced Classical Mechanics**
A framework is developed for solving problems in classical mechanics based on the calculus of variations and Hamilton’s principle. The resultant Lagrangian and Hamiltonian Dynamics will be used to analyze various physical systems including motion under a central force, non-linear and coupled oscillators, and the motion of rigid bodies. *Prerequisite(s): PHYS 2113 or PHYS 2123, MATH 2723 or*

*MATH 2023, MATH 2753 or MATH 2013. Prerequisite/Corequisite(s): MATH 3713.*

**PHYS 3253 Electromagnetism 1**
Introduction to the theory of electric fields and continuous charge distributions, dielectrics, conductivity in metals, magnetic fields and magnetic materials, and Maxwell's equations. *Prerequisite(s): PHYS 1023, MATH 2723 or MATH 2023, and MATH 2753 or MATH 2013.*

**PHYS 3333 Classical Thermodynamics**
Relations between observed thermodynamic properties of substances are derived from certain basic postulates without taking account of the atomic structure of matter. Topics include conditions of equilibrium, processes, thermodynamic engines, thermodynamic potentials, Maxwell relations, phase transitions. *Prerequisite(s): PHYS 2413 or PHYS 2423, MATH 2723 or MATH 2023, and MATH 2753 or MATH 2013.*

**PHYS 3343 Statistical Physics**
The physics of large assemblies of particles. Elements of probability theory, information theory and quantum mechanics are used to develop a purely statistical theory for dealing with these physical systems at a microscopic level. Emphasis is placed upon the derivation and use of the canonical probability distribution in physical systems in thermal equilibrium. Physical systems dealt with include the ideal and non-ideal gas, paramagnetism, black body radiation, Bose Einstein condensation, and free electron theory of metals. *Prerequisite(s): PHYS 3333.*

**PHYS 3423 Subatomic Physics**
Nuclear properties and models, radioactive dating, fission, fusion, nuclear reactors, accelerators, the classification and properties of subatomic particles. Applications in areas such as ecology, dosimetry, medical physics and nuclear astrophysics are discussed. *Prerequisite(s): PHYS 2413 or PHYS 2423, MATH 2723 or MATH 2023, and MATH 2753 or MATH 2013.*

**PHYS 3433 Quantum Mechanics 1**
Careful attention is given to establishing the fundamental concepts of the theory. Topics include discussion of the wave function and the Fourier integral; solutions of one-dimensional systems, including the harmonic oscillator; operator methods and matrix mechanics; solutions of three-dimensional systems, including one-electron atoms; and time-independent perturbation theory. *Prerequisite(s): PHYS 2413 or PHYS 2423, MATH 2723 or MATH 2023, and MATH 2753 or MATH 2013.*

**PHYS 3523 Modern Optics**
Optics remains one of the most exciting fields in physics and this course is a continuation of PHYS 2523. Topics covered in this course may include: Fourier transforms, Fraunhofer and Fresnel diffraction, light propagation through optical systems, lasers, optical materials, non-linear optics and holography. *Prerequisite(s): PHYS 2523.*

**PHYS 3553 Stellar Astrophysics**
Beginning with binary stars as tools for determining stellar properties, we then discuss spectral classification. The physics underlying stellar models is developed and hydrogen-burning stars like the Sun are discussed. Students will have the opportunity to complete observing projects in the Acadia Observatory. *Prerequisite(s): PHYS 2113 or PHYS 2123, PHYS 2413 or PHYS 2423. Corequisite(s): PHYS 3343 and PHYS 3433.*

**PHYS 3563 Cosmology**
Modern cosmology entered a new era with the launch of the James Webb Space Telescope. This course investigates the hot Big Bang cosmological model in which our universe evolved from a dense, hot soup of elementary particles to being filled today with radiation, stars, galaxies, black holes, and dark matter. Einstein’s General Theory of Relativity is introduced. *Prerequisite(s): PHYS 2113 or PHYS 2123, PHYS 2413 or PHYS 2423.*

**PHYS 3613 Experimental Physics 3**
A series of laboratory-based experiments designed to broaden the student's understanding of physics. Experimental techniques will be further developed, including the use of instrumentation for controlling experimental variables and acquiring data, data analysis, and written communication. (This is a laboratory-based course without significant lecture components.) *Prerequisite(s): PHYS 2213, PHYS 2413.*

**PHYS 4213 Electromagnetism 2**
Maxwell's equations are reviewed. From Maxwell's equations, the solutions for plane electromagnetic waves in free space, plasmas, non-conductors and conductors are derived with an emphasis on behaviour at interfaces, including transmission, reflection and refraction, magnetic circuits, guided waves, and antenna theory. *Prerequisite(s): PHYS 2113 or PHYS 2123, PHYS 3253, MATH 2023 or MATH 2723, MATH 2753 or MATH 2013.*

**PHYS 4433 Quantum Mechanics 2**
PHYS 4433 is a continuation of PHYS 3433. The student is introduced to time-dependent perturbation theory and other approximation methods, as well as applications of the theory including many particle systems, selected topics on radiation, and scattering theory. *Prerequisite(s): PHYS 3433, PHYS 3253.*

**PHYS 4443 Solid State Physics**
A wide range of concepts from general physics are applied to models of perfect crystalline solids. Topics include crystal structure, interatomic forces, lattice dynamics, metals, semiconductors, superconductivity, and magnetism. *Prerequisite/Corequisite(s): PHYS*

*3343 and PHYS 3433.*

**PHYS 4513 Special Topics in Physics**
Senior-level study of a particular topic in physics chosen to supplement an individual student's education in physics in an area not covered in the normal curriculum. *Prerequisite(s): 12h PHYS at 3000-level with a minimum grade of B- and permission of the Department.*

**PHYS 4523 Physics Research Special Topics**
Completion of a physics research project with faculty supervisor(s), including a written report presented to the department. *Prerequisite(s): Permission of the department. Antirequisite(s): PHYS 407T and PHYS 408T.*

**PHYS 4773 Fluid Dynamics**
Topics may include the Navier-Stokes equations, streamlines, circulation, vorticity, irrotational flow, potential flow, laminar flow, gravity waves, dimensional analysis, geophysical fluid dynamics, turbulence, hydrodynamic instability. *Cross-coded as MATH 4773. Prerequisite/Corequisite(s): MATH 4753 or permission of the instructor. Antirequisite(s): Credit can be obtained for only one of PHYS 4773 or MATH 4773.*

**PHYS 407T Honours Thesis 1**
Completion of original physics research with thesis supervisor, following the Physics Department Honours Thesis Schedule. *Prerequisite(s): Permission of the Department. Antirequisite(s): PHYS 4523.*

**PHYS 408T Honours Thesis 2**
Completion of original physics research with thesis supervisor, following the Physics Department Honours Thesis Schedule. *Prerequisite(s): PHYS 407T. Antirequisite(s): PHYS 4523.*

## Politics

Note: the third digit of each POLS course number specifies the following: 0-Canadian, 1-Special, 3-Reading, 4-Theory, 6-Law, 8-International Relations, 9-Comparative.

**POLS 1303 Law/Politics & Government**
This introductory course in politics and government introduces students to concepts, institutions of government, political processes, law, and political thought. *No prerequisites.*

**POLS 1403 Global Politics, Law, and Culture**
This introductory course explores changing concepts such as development, war and peace, international law and justice, and social movements that help us understand contemporary global politics. *No prerequisites.*

**POLS 1503 Introduction to Indigenous Politics**
This interactive course introduces students to Indigenous political perspectives on relationships with the land, nationhood, sovereignty, and legal traditions vis-a-vis Mi'kma'ki, the Canadian state, and the world. Students will learn how Indigenous peoples have been challenging colonialism through struggles for self-determination, recognition, self-government, land claims, and economic self-sufficiency. Identity, power, and the principles of Indigenous Knowledge forms are foundational.

**POLS 2000 Politics Passport**
In this course, political learning is put into practice. Students will engage in some form(s) of "political activity," broadly defined. Engagement includes attending, participating in, organizing, and publicly commenting on political events of various kinds. Students will document their engagement, which will then be verified by a faculty member for their passport. Required for Politics majors and the Certificate in Democratic Leadership; not open to non-majors.

**POLS 2003: Introduction to Public Policy and Public Good**
This course examines the notion of a "public" and asks: what's the role of government in a liberal democratic society? Students are introduced to the public policy process with a focus on how issues emerge, ideas are framed, priorities are established, and agendas are set and managed.

**POLS 2023 Introduction to Democratic Leadership**
This course examines ways that leaders exercise leadership in democratic contexts. Topics to be discussed include ethical leadership, public responsibilities, and challenges that political leaders face in a complex, globalized world.

**POLS 2113 Introduction to Political Theory: Politics of Knowledge**
This course offers an overview of central concepts of political theory and political argument. These concepts are explored through examination of selected political theories, ranging from the earliest to contemporary texts from Western and non-Western traditions. Attention is given to evaluating arguments in which these concepts figure, as well as to the development of reading, writing, critical, and analytical skills. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 2223 Canadian Politics**
An introduction to the core institutions and processes of Canadian government, such as the constitution, Parliament, prime minister, judiciary, and federalism. By asking who is and is not represented in Canadian politics, this course examines how well these institutions

and processes function to promote democratic governance. *Antirequisite(s): Credit can be obtained for only one of POLS 2223 or POLS 2006.*

**POLS 2683 Global Politics**
This course examines tensions between states and globalization. We review historical and changing patterns of conflict and cooperation in the international system. We study global governance organizations like the United Nations and processes of international law. We discuss issues like terrorism, nuclear proliferation and peacekeeping and humanitarian intervention.

**POLS 2893 Comparative Politics**
This course introduces students to the basic methodological concepts and theories used in the evaluation and comparison of political systems. Students will examine the similarities and differences in the political development of different states, focusing on issues of democracy, authoritarianism, revolution, social movements, and civil society.

**POLS 3013 The Politics of Gender**
The literature regarding the participation of women in political life is surveyed. Attention is given to theoretical approaches to the critical understanding of gender and politics and to the political involvement of women in Canada and the United States, as well as in other political communities. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3033 Research and Methodology in the Social Sciences**
The basics of the methodology of the social sciences. Material will cover different approaches to gathering data, as well as an introduction on how to analyze data. Emphasis is on the logic of political and social enquiry and the relationship between theory and the methods. Student involvement in a research project is an integral part of the course. *Antirequisite(s): Credit can be obtained for only one of POLS 3033 or POLS 2013.*

**POLS 3043 Honours Seminar**
This course, for Politics majors only, will normally be taken by honours students in their third year and will focus on central debates in the discipline. In particular, students will be exposed to different approaches in the study of politics. Students will present their thesis proposals in class. A grade of B+ is required to continue in the honours program.

**POLS 3053 Borders and Migration**
This course looks at the causes, consequences and experiences of borders, and their impact on the people who cross them. The course prepares students to understand the impact of frontiers and borders locally, globally, aesthetically, intellectually, technologically, and their effects on nation states, cultures, Indigenous Peoples, languages, gender, the class system, and growing digital divides.

**POLS 3063 Indigenous Law and Governance in Canada**
Students focus on how the rich, complex nature of Indigenous knowledge (IK) informs contemporary Indigenous legal thought and governance across Canada. After an overview of diverse Indigenous knowledge systems, students are introduced to interpretations and expressions of IK in the law and governance. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3073 International Relations of the Middle East**
The course will focus on contemporary international relations in the Middle East, covering issues related to regional wars, ethnic and religious conflicts, refugees, humanitarian issues, trade, oil production, and other matters, with the goal of understanding how international relations of the region shape these issues.

**POLS 3083 Issues in International Law**
The basic principles of international law are examined in the context of contemporary global politics. The evolution of international law and its application among and across states and societies will be studied from a variety of theoretical, conceptual and normative perspectives. Particular emphasis will be placed on the laws of war; humanitarian law; and international criminal justice. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3103 Advancing Human Rights in Northern Communities in Canada**
In this seminar course, students focus on human rights violations and eco-justice issues faced by Inuit in their homelands across Arctic regions in Canada. In their study of Inuit philosophy, political and administrative innovations and policy approaches, students seek to understand the value of ever-evolving, ancient Inuit Traditional Knowledge, called Inuit Qaujimajatuqangit, in addressing a range of contemporary policy issues. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3133 Leaders and Cabinets in Canada**
This course examines executive-level governance in the Canadian federal system. It explains the work of prime ministers, premiers, ministers and cabinets, and touches on the role of opposition party leaders in a system of responsible government as well as glass ceilings. Key political actors and public policy decisions in Canadian history are profiled, including notable leaders and ministers across Canada. *Prerequisite(s): A minimum grade of C- in POLS 2003, POLS 2023, or POLS 2223, or permission of the instructor.*

**POLS 3143 Contemporary Political Theory**
This course surveys developments in 20th and 21st century political thought. Selected thinkers and themes are covered, with a focus on the close reading of primary texts. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3153 Canadian Foreign Policy**
This course explores Canada's involvement in global politics, taking a critical analysis that interrogates the trends and activities that have defined Canada's international role and the various forces and actors that shaped Canada's global engagement. Canada's national focus on multilateralism, peacekeeping and human security will be examined. Other themes include Canada's role in foreign wars, global governance, and international development. *Prerequisite(s): POLS 2683.*

**POLS 3163 Law, Religion, and the Modern State**
This course examines the relationship – sometimes productive, occasionally violent, never boring – between law and religion in the modern state. It explores the role of religion in historical processes of colonization, decolonization, and state-building and analyzes how governments in places like Israel, India, Nigeria, and the United States attempt to shape religion's place in public life. Cross-listed with CREL and LAWS. *Prerequisite(s): 30 credit hours completed.*

**POLS 3173 Model United Nations Simulation**
The Model United Nations Simulation course provides an opportunity for students to become familiar with international diplomacy through simulations. Students will learn about the United Nations system, its procedures, the art of diplomacy, and resolution and position paper drafting, while also developing their analytic, research, public speaking, conflict resolution and negotiation skills through weekly UN crises simulations. *Prerequisite(s): Third-year standing (i.e., >54h completed), and at least two of POLS 1403, POLS 2683, POLS 3773.*

**POLS 3183 U.N. and Contemporary Global Governance**
The social, cultural, political and economic functions the United Nations in the international system will be examined. Specifically, the growth of Human Security and Humanitarian Intervention will be explored in light of the U.N.'s recent politicization. Next, the emergence of global governance models that include other international institutions and actors will be explored. Finally, the emerging horizons of contemporary assemblages of governance will be explored. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3203 Political Leadership in Atlantic Canada**
This course studies diverse forms of leadership in governance and politics across the Atlantic Canada region. It explores ideals of democratic leadership for small polities. Case studies of political leadership in New Brunswick, Newfoundland & Labrador, Nova Scotia, and Prince Edward Island are placed in comparative context with Ottawa, other provinces and the territories. *Prerequisite(s): A minimum grade of C- in POLS 2003, POLS 2023, or POLS 2223, or permission of the instructor.*

**POLS 3213 The Politics of Water**
This course will explore the dynamics of political conflicts over water scarcity, and will evaluate the ecological and economic impacts of different political approaches to ensuring water security. Drawing on case studies from Canada and around the world, particular attention will be paid to questions of water as a commodity and trade in water resources. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3223 Climate Change Politics**
This course will explore the political dimensions of the climate crisis, including struggles for climate justice, from global to local scales. The course will cover the politics of climate change mitigation as well as the challenges and opportunities presented by adapting to a climate-changed world. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3233 Political Management in Canada**
This course profiles the work of partisan advisors and political staff to leaders, situating Canadian practice in comparative context. Topics may include political management theory, strategic communications, campaign management, public opinion research, political marketing, permanent campaigning, advocacy, ethical codes of conduct. Emphasis is placed on concise writing. *Prerequisite(s): POLS 2223 with a minimum grade of B or permission of instructor.*

**POLS 3243 Political Psychology**
This course explores the intersection of politics and psychology, providing students with tools to analyze political phenomena through the lens of individual and collective psychological processes. We will delve into topics like the psychology of democracy, capitalism, and fascism, social solidarity and exclusion, media influence and propaganda, politics of identity, memory, and collective trauma, colonialism, nationalism, and more. *Prerequisite(s): 30 credit hours completed.*

**POLS 3253 Political Ethics**
This course explores key questions about the relationship between politics and ethics. It examines both historical and contemporary theoretical debates on the role of ethics in politics and the politics of ethics, and applies them to such practical issues as leadership and governance, institutions and expressions of power, norms and exclusions, and conflicts and resistance. *Prerequisite(s): Minimum second year standing, or enrolment in the Certificate in Democratic Leadership program.*

**POLS 3263 International Relations & the Global South**
This course introduces students to diverse Global South perspectives in the field of International Relations (IR). Focusing on issues such as colonialism, decolonization, sovereignty, security, and nationalism, it highlights both the omission and contributions of the Global South to the field. In doing so, it enables students to critically engage with central issues in the field of IR. *Prerequisite(s): POLS 2683.*

**POLS 3273 Political Economy: Government and Business**
This course introduces students to the field of political economy. We examine different perspectives on how capitalist economies function and have evolved over time. The course begins with the interaction of states (government) and markets (business), and then

develops models to incorporate dimensions of gender, race, culture, and environment into our understanding of the production and distribution of wealth. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3303 The Politics of Belonging: Anti-Colonialism and Anti-Racism in Canada**
To explore the politics of belonging, students will focus on how the Canadian state engages with Indigenous peoples, Black Canadians, and other racialized communities in similar and different ways. Students will be introduced to the philosophical and conceptual tenets of intersectionality and decolonization, evaluate Canada's record on multiculturalism, and explore diverse modes of resistance to persistent colonial and racial inequities. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3333 Non-Western Political Thought**
This course offers an overview of ancient, modern and contemporary contributions from various non-Western traditions of political thought, which have been historically marginalized in Western academic studies of theory. Among the examined traditions are African, Asian, Indigenous, Islamic, and Latin American political thought. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3353 Ancient and Medieval Political Theory**
This course explores the foundations of western politics and its limitations. The earliest texts of Western political theory, from Ancient Greece to the Renaissance, are essential to understanding foundational concepts like politics, justice, law, and citizenship. Key questions and themes include: how human beings should live together, who should rule, and what constitutes the good life. *Prerequisite(s): Second-year standing (i.e., >24h completed). Antirequisite(s): Credit can be obtained for only one of POLS 3353 or POLS 2343.*

**POLS 3433 Modern Political Theory**
This course explores political theories from the 17th through the 19th century, which are especially important in establishing the foundations, boundaries, and mechanisms of modern political rule. Course texts explore arguments about the balance between freedom and equality; the concepts of sovereignty, the "social contract" and government; and the limitations of rationality in establishing legitimate government. *Prerequisite(s): Second-year standing (i.e., >24h completed). Antirequisite(s): Credit can be obtained for only one of POLS 3433 or POLS 2443 or POLS 2543.*

**POLS 3463 Law & Politics in Canada**
An introduction to the structure and functions of the judiciary and its role in the Canadian political process. Topics include the nature of judicial power and its constitutional framework in Canada, judicial appointments, and judicial policy-making. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3483 Globalization: Critical Perspectives**
The course will provide an overview of the theoretical foundations and historical developments which form the context of the ongoing processes of neo-liberal economic globalization from post WW II to the present day. It will also address critical political, economic, environmental, feminist, and developing country perspectives on globalization. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3493 American Politics and Government**
This course explores the structure of the American government, key policy issues, and aspects of American political culture that inform the practice of politicians at federal and state levels, as well as the political engagement of citizens. *Prerequisite(s): POLS 2893.*

**POLS 3503 The Canadian Civil Service: Values, Ethics and Good Governance in Canada**
An introduction to the public service in which senior appointed public officials plan, organize, direct, control and evaluate, through middle managers, the major activities of federal, provincial, and territorial governments in Canada. Students will explore concepts, contexts, organizational cultures, structures and processes, rules, roles and relationships with a focus on understanding the relationship between public administration and good governance *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3513 Gender and Development**
This course explores how ideas about gender have influenced the ways women participate economically, socially, and politically in countries of the developing world and how the women's participation affects the development of these countries. Analysis of theoretical concepts is complemented by case studies from Latin America, South and Southeast Asia, Africa, and the Middle East. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3543 Community Political Power**
Consideration of the current literature on the theory and practice of democratic politics in small communities. Special attention is given to the exercise of political power in such communities and to the impact of the size of the community upon the integrity of democracy and the character of citizenship. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3563 Women, Gender and the Law in Canada**
This course examines legal issues that are especially relevant to women. Students will analyze laws, policies, and court rulings on issues including adoption, marriage, and prostitution. This approach will allow students to understand the issues themselves, how law is gendered, and the workings of government and politics. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3583 New Issues in Security**
The course discusses new concepts and challenges for security. Security now embraces military, environmental, economic, social and political sectors. Securitizing problems such as terrorism, gender, human rights, narcotics trade, organized crime, pandemics, and

internet abuse has major consequences for state policies, international relations and international organization.

**POLS 3593 Collective Action and Political Change**
Drawing on current and historical cases from North America and around the world, as well as theoretical literature on civil society, social movements, and activism, this course explores the ways that individuals engage in collective action to pressure for political change. Attention is paid to the strategic, technological, cultural, and structural factors that facilitate and obstruct political change. *Prerequisite(s): POLS 1403 or POLS 2893 or permission of the instructor.*

**POLS 3683 Biopolitics**
Biological life is now a target of local, national and global politics. This course examines the politicization of life in war, development, public health, resource management, human rights and international law. Relationships with sovereignty, markets, nature, technology and culture are also explored. Historical and contemporary texts are used to examine positive, negative and post-biopolitical futures. *Prerequisite(s): POLS 1403 and third-year standing (i.e., >54h completed).*

**POLS 3693 Politics of Latin America and the Caribbean**
This course explores contemporary politics in Latin America and the Caribbean and the current trends that are shaping the region today. Topics covered include legacies of dictatorships and civil war, human rights movements, Indigenous movements and governance, populist politics, migration, and economic transformation. *Prerequisite(s): POLS 2893 or POLS 3973 or permission of the instructor.*

**POLS 3703 Issues in Canadian Politics**
The study of politics by way of a systematic investigation of one or more issues of topical relevance in Canadian public policy. The particular issues of the course will be available from the department in the semester prior to its being offered. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3773 Global Issues**
This course covers the new generation of global issues and problem-solving processes involving states and other actors beginning with the global economy: trade, development, aid and debt. We then study actors and processes in other global regimes including human security, the environment, gender and human rights. *Antirequisite(s): Credit can be obtained for only one of POLS 3773 or POLS 2783.*

**POLS 3783 Pop Culture and World Politics**
This course explores the inter-text between popular culture (i.e., Film, Music, Television, Performance and Painting) and the study, practice and production of world politics. The course builds on the cultural turn in international relations and develops the importance of aesthetics in appreciation and politicizing contemporary global drama. *Prerequisite(s): POLS 1403 or permission of the instructor.*

**POLS 3803 Politics and Government of Canadian Municipalities**
The origins, development, and present legal positions of the various forms of local, regional and metropolitan systems of municipal government in Canada. Special attention is paid to the problems of urban government, the territorial extent of local government, and local community development. The position of municipal government within the federal states. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3833 Reading Course in Selected Topics**
Supervised readings by individual advanced students. The course content will be submitted by the student for the approval of the department and will be strictly supervised. *Prerequisite(s): Permission of the Department.*

**POLS 3843 The Politics of Global Resistance**
This course explores the emergence of global forms of resistance. It explores the political theory of resistance, then looks at different local and/or national examples of resistance, as well as those forms of resistance that seek to specifically address global issues and/or define themselves as strictly global actors. This course counts towards the political theory and international relations stream. *Prerequisite(s): Third-year standing (i.e., >54h completed).*

**POLS 3883 The Politics of the Environment**
This course introduces students to environmental politics in Canada in ways that include, but extend beyond, policy and legislation. Students work to understand how factors including institutions, economies, communities, and identities play a part in environmental politics. The course explores contemporary environmental issues and situates them within broader processes, giving students the tools to analyze environmental problems and propose solutions. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3893 European Politics**
This course explores key processes, institutions, and challenges of contemporary European politics, focusing on such topics as European identity, European governance and integration, migration and neighbourhood policy, Euroscepticism and nationalism. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3903 Canadian Political Parties**
A survey of the evolution of Canadian political parties, with particular emphasis on patterns of support, ideological change, and styles of leadership. *Prerequisite(s): POLS 2223 with a minimum grade of B or permission of the instructor.*

**POLS 3936 Reading Course in Selected Topics**
Supervised readings by individual advanced students. The course content will be submitted by the student for the approval of the department and will be strictly supervised. *Prerequisite(s): Permission of the Department.*

**POLS 3943 Media and Politics**
The role, conduct, and political significance of communication media will be considered from a number of theoretical perspectives. Attention will be paid to the practice and democratic role of the journalist, the relationship of language and politics, the impact of popular culture on politics, and the political economy of various media platforms and technologies. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3973 Comparative Politics 2**
This course introduces students to concepts and cases in the economic development of states in the developed and developing worlds. Students examine the roots of economic disparity between rich and poor countries and the political and social consequences of different models of economic development as practiced in different countries. *Antirequisite(s): Credit can be obtained for only one of POLS 3973 or POLS 2993.*

**POLS 3983 Theoretical Approach to World Politics**
This course covers the key theories of international relations and world politics. Realism, Liberalism, Marxism, Feminism, Constructivism and Post-Structuralism will be explored. Readings will be selected from classic and contemporary writers. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 3993 Digital Democracy**
Students explore cyberspace as contested terrain, reflecting on the notions of democratic empowerment and democratic decay. Importantly, students examine the opportunities, threats, and limitations of using artificial intelligence in a democratic context and assess the need for the effective regulation and governance of artificial intelligence. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 4013 The Politics of Authoritarian Regimes**
This course examines the internal politics of authoritarian regimes. Major topics include military coups, regime survival strategies, corruption and patronage, ideology and propaganda, and revolutionary movements. Case studies will be drawn from around the globe. This course will also consider whether contemporary democracies are vulnerable to an authoritarian transition of their own. *Prerequisite(s): POLS 2893.*

**POLS 4023 Getting Elected in Canada**
In this course, students will research election literature to prepare a campaign plan as part of an academic exercise to get a candidate elected to a Canadian legislature. Topics may include the history of Canadian elections, electoral systems, election rules, voter behaviour, candidate nominations, campaign jobs, leaders' debates, constituency campaigns, diverse representation, and digital campaign trends. *Prerequisite(s): A minimum grade of B in POLS 2003, 2023, 2223, 3133, or 3203, or permission of the instructor.. Antirequisite(s): Credit can be obtained for only one of POLS 3903 or POLS 4023.*

**POLS 407T Honours Thesis 1**

**POLS 408T Honours Thesis 2**
*Prerequisite(s): POLS 407T.*

**POLS 4103 Intergovernmental Relations in the Canadian Federal System**
Students in this seminar on contemporary Canadian Federalism will focus on the values and practices of intergovernmental relations among federal, provincial, territorial, and Indigenous governments. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 4143 Applied International Ethics**
This course is a critical exploration of ethical dilemmas in contemporary international politics. A special emphasis will be placed on cosmopolitan and communitarian approaches to issues such as international justice, war, terrorism, global poverty, sovereignty, human rights, women's rights, the environment, and humanitarian affairs and intervention. *Prerequisite(s): Third-year standing (i.e., >54h completed) with a minimum grade of B in POLS 2683 or POLS 3773 or permission of the instructor.*

**POLS 4193 Federalism and Indigenous Peoples: An International Comparative Study**
The theory and the practice of accommodating the needs and interests of distinct groups within a federal system will inform our comparative analysis of how neo-colonial federal systems interact with Indigenous nations. Students will assess a variety of possible federal arrangements which could redefine relations between the Indigenous peoples and federal systems in Canada, the United States, Australia and elsewhere. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 4293 Politics of Development**
This seminar course critically explores politics and economies of the Global South. Beginning with a discussion of the concept of "development", it subsequently explores legacies of colonialism, strategies of economic development and their political impact, political transitions, and factors mobilizing global and local civil society. *Prerequisite(s): POLS 3973 with minimum grade of B or permission of the instructor.*

**POLS 4303 Approaches to the Study of Canadian Politics**
Explores both classical and modern analyses of Canadian politics. The course attempts to understand the interconnections between political culture, political institutions, party politics, and public policy in Canada and to draw conclusions about the nature of political power in Canada. *Prerequisite(s): POLS 2223 with a minimum grade of B or permission of the instructor.*

**POLS 4343 Political Philosophy 1**
This course develops ideas central to political philosophy by means of analytic and/or interpretive inquiry. The topic for each offering is available from the department. *Prerequisite(s): one of POLS 3353 or POLS 3433 with a minimum grade of B or permission of the instructor.*

**POLS 4393 Approaches to the Study of Comparative Politics**
A survey of major changes and divisions in the field of comparative politics since the 1950s. A review of the logic and methods of the comparative approach and an introduction to a variety of contemporary debates, interdisciplinary models and issues. *Prerequisite(s): POLS 2893 or POLS 3973 with a minimum grade of B or permission of the instructor.*

**POLS 4403 Canadian Constitutional Law**
An examination of the role performed by the judicial and legislative branches in constitutional protections in Canada. Topics include leading constitutional decisions of the Supreme Court of Canada and the major trends in Canadian constitutional law including the Charter of Rights and Freedoms and the division of powers. *Prerequisite(s): POLS 2223 with a minimum grade of B or permission of the instructor.*

**POLS 4483 Politics of Global Technologies**
This seminar explores the global political implications of new advances in science and technology. Specific attention is paid to the impact of cyber-technology, bio-technology, and nano-technology on political concepts like war, security, human rights, global governance and democracy. If our future is technological, what becomes of life? *Prerequisite(s): 54h and POLS 2683 or POLS 3773 with a minimum grade of B or permission of the instructor.*

**POLS 4603 Indigenous Peoples' Politics and Policy Priorities**
Students will explore diverse Indigenous peoples' worldviews and values, legal perspectives and approaches, policy priorities and political strategies. Students will consider specific Indigenous initiatives, such as those related to Indigenous healing, health and education, Indigenous land and water governance, bio-cultural restoration and decolonization of Nature-human relations, and sustainable communities. *Prerequisite(s): Second-year standing (i.e., >24h completed).*

**POLS 4643 Critical Political Theory**
"Critical theory" refers to a tradition of holistic, interdisciplinary political theory grounded in a critique of domination. Thinkers studied may include Adorno, Baudrillard, Benjamin, Butler, Derrida, Foucault, Haraway, Jameson, and Marcuse. Emphasis on close reading and discussion of primary texts. *Prerequisite(s): One of POLS 3353 or POLS 3433 with a minimum grade of B or permission of the instructor.*

**POLS 4693 Democracy and the Market**
This seminar explores contemporary challenges to democratic and democratizing states in the contexts of globalization and multiculturalism. Theoretical analysis concentrates on the relationship between economic and democratic development and how this relationship has influenced the demands for and distribution of rights and material benefits. Theoretical analysis will be illustrated with case studies from the developed and developing worlds. *Prerequisite(s): POLS 2893 or POLS 3973 with a minimum grade of B, or permission from instructor.*

**POLS 4793 Global Political Economy**
A survey of theories and models which have sought to explain the interrelationships among the state, the society, and the economy of a nation, among political power and economic and social development and underdevelopment. *Prerequisite(s): POLS 2893 or POLS 39733 with a minimum grade of B or permission of the instructor.*

**POLS 4803 Canadian Public Policy**
The social, political, cultural, and institutional forces which shape the form and content of public policy, the rationality of the policy process, the mushrooming of state activities, and the actual impact of governmental programs. *Prerequisite(s): POLS 2223 with a minimum grade of B or permission of the instructor.*

**POLS 4843 Environmental Political Theory**
This course examines whether or how the values of justice, democracy, and ecological sustainability can be mutually compatible. Competing visions of "the good life," strategies for political change, and conceptions of "nature," are examined in light of contemporary environmental crises. *Prerequisite(s): One of POLS 3353 or POLS 3433 with a minimum grade of B or permission of the instructor.*

**POLS 4883 Politics of Human Rights**
This course examines what human rights mean, why they matter, and how they have come to influence contemporary global politics. We explore the political, legal and ethical dimensions of human rights standards from a variety of perspectives in Political Science and the subfield of International Relations. *Prerequisite(s): 54h and POLS 2683 or POLS 3773 with a minimum grade of B or permission of the instructor.*

**POLS 4893 Theory and Politics of Citizenship**
This seminar course explores questions of what citizenship means, how it develops, and how it is practiced in societies influenced by globalization and multiculturalism. Theoretical debates about the meaning of citizenship will be complemented by case studies of issues such as migration/immigration, multiculturalism in advanced democracies, and national struggles for the rights of women and Indigenous peoples. *Prerequisite(s): POLS 2893 or POLS 3973 with a minimum grade of B or permission of the instructor.*

**POLS 4913 or 4916 Special Topics**
Supervised readings by individual senior students. The course content, at a level consistent with other 4000-level POLS courses, will be submitted by the student for the approval of the department and will be strictly supervised.

## Psychology

**PSYC 1013 Introductory Psychology 1**
An introductory survey of psychology with emphasis on basic processes, including perception, learning, biological bases of behaviour, cognition, and basic research methods. *Antirequisite(s): Credit can be obtained for only one of PSYC 1013 or PSYC 1113.*

**PSYC 1023 Introductory Psychology 2**
An introductory survey of psychology with emphasis on social psychology, developmental psychology, abnormal behaviour, psychotherapy, personality and assessment. *Prerequisite(s): PSYC 1013. Antirequisite(s): Credit can be obtained for only one of PSYC 1023 or PSYC 1123.*

**PSYC 1113 Introductory Psychology 1 for Majors**
An introductory survey of psychology with emphasis on basic processes, including perception, learning, biological bases of behaviour, cognition, and basic research methods. This course is restricted to Psychology majors, and includes a laboratory component. Non-majors should register for PSYC 1013 instead. (1.5h lab). *Antirequisite(s): Credit can be obtained for only one of PSYC 1113 or PSYC 1013.*

**PSYC 1123 Introductory Psychology 2 for Majors**
An introductory survey of psychology with emphasis on social psychology, developmental psychology, abnormal behaviour, psychotherapy, personality and assessment. This course is restricted to Psychology majors, and a laboratory component. Non-majors should register for PSYC 1023 instead. (1.5h lab). Prerequisite(s): PSYC 1113 or permission of the instructor. *Antirequisite(s): Credit can be obtained for only one of PSYC 1123 or PSYC 1023.*

**PSYC 2013 Research Design and Analysis 1**
Introduction to empirical research methods used by psychologists. Although experimental methods will be emphasized, other research methods will be discussed in detail. The principal purpose is to help develop an understanding of basic concepts used in psychological research. (1.5h lab). *Prerequisite(s): PSYC 1113/PSYC 1123 with a minimum grade of C-, and registration as a Psychology major or permission of the instructor. Prerequisite or Corequisite(s): MATH 1253 or MATH 1213 or MATH 2213 or MATH 2233.*

**PSYC 2023 Research Design and Analysis 2**
An introduction to research designs and to statistical tools associated with these designs. An examination of psychological research literature to give an opportunity to see how research methods and statistical tools are applied to solving problems in psychology. (1.5h lab). *Prerequisite(s): PSYC 2013 with a minimum grade of C-. Prerequisite or Corequisite(s): MATH 2253 or MATH 1223 or MATH 2223 or MATH 2243.*

**PSYC 2103 Social Psychology**
An introduction to the methods, theories, and applications of social psychology. The study of how our thoughts, feelings, and behaviours are influenced by the real or imagined presence of other people. Topics include persuasion, conformity, prejudice, aggression, altruism, and attraction. *Prerequisite(s): PSYC 1013 and PSYC 1023 or PSYC 1113 and PSYC 1123.*

**PSYC 2113 Abnormal Psychology**
An overview of psychopathology, focusing on mental disorders as defined by the current version of the Diagnostic and Statistical Manual. Covers the history of abnormal psychology, classification and diagnosis of mental disorders, the main defining features of various disorder (including anxiety disorders, schizophrenia, mood disorders, and personality disorders), and different perspectives on causes and treatment. *Prerequisite(s): PSYC 1013 and PSYC 1023 or PSYC 1113 and PSYC 1123.*

**PSYC 2123 Personality**
A review of personality with an emphasis on theory, the research supporting it, and the applied consequences of its use. Lectures and a minor theoretical or laboratory study. *Prerequisite(s): PSYC 1013 and PSYC 1023 or PSYC 1113 and PSYC 1123.*

**PSYC 2133 Physiological Psychology**
This course covers the basic neuroanatomical and neurophysiological underpinnings of neural systems (e.g., vision), psychological processes (e.g., memory) and behaviour (e.g., sleep), focusing on the organization and functioning of the nervous system. This course will also cover the basic mechanisms of neuropathology and neuroplasticity. *Prerequisite(s): PSYC 1013 or PSYC 1113.*

**PSYC 2143 Introduction to Cognition**
This course is an introduction to the study of mental processes used in learning, remembering, thinking, language, creativity, decision-making and problem solving. Emphasis will be placed on theories and the research methods used by cognitive psychologists. *Prerequisite(s): PSYC 1013 or PSYC 1113.*

**PSYC 2153 Developmental Psychology**
This course serves primarily as an introduction to theory and research in developmental psychology. Select aspects of human physical, emotional, cognitive, perceptual and social development at various stages from conception through to adulthood are discussed. *Prerequisite(s): PSYC 1013 and PSYC 1023 or PSYC 1113 and PSYC 1123.*

**PSYC 2163 Psychology of Gender**
This course examines recent scientific data on the psychological similarities and differences among genders, how differences are thought to arise, and implications of those differences. The separate dimensions of gender including sex assigned at birth, gender identity, and gender/role expression will be examined from different theoretical perspectives that challenge viewing gender as a binary construct. *Prerequisite(s): PSYC 1013 and PSYC 1023 or PSYC 1113 and PSYC 1123.*

**PSYC 2173 Sensory Processes**
This course is an introduction to sensory and perceptual mechanisms of the five sensory systems. An emphasis will be placed on research and theory related to the link between physiology and perceptual abilities. *Prerequisite(s): PSYC 1013 or PSYC 1113.*

**PSYC 2183 Human Sexuality**
A survey of theory and research concerning human sexuality. The course reviews methods and methodological problems in research on sexual behaviour. It covers the basic information about sexual physiology and function, sexual development and differentiation, sexual behaviour, attraction, intimacy, sexual orientation, and sexual dysfunction. The emphasis is on psychological research in each topic. *Prerequisite(s): PSYC 1013 and PSYC 1023 or PSYC 1113 and PSYC 1123.*

**PSYC 2193 Women in Science**
This course will explore issues affecting women in science and attempt to answer the questions: Why so few? How can we effect change? Through an examination of research on topics such as implicit bias, stereotyping, and messaging in popular culture, the barriers to women entering scientific fields and ways to challenge and overcome them will be explored. *Prerequisite(s): 27 hours of university credits obtained. Antirequisite(s): Credit can be obtained for only one of PSYC 2193 or WGST 2193.*

**PSYC 3013 Readings in Psychology**
Reading and discussion with individual advanced students and staff members. Arranged to meet the needs of individual students. Topics to be decided. Students are expected to present a definite plan of study. *Prerequisite(s): Permission of the Department.*

**PSYC 3023 Honours Seminar**
This course prepares potential and current honours students for thesis work. Critical evaluation of current controversies in the field is emphasized. Issues regarding graduate programs and careers in psychology are discussed. This course may be taken in third or fourth year, but is usually taken in third year. *Prerequisite(s): Program GPA of 3.33.*

**PSYC 3053 Cognitive Neuroscience**
The study of how the brain enables the mind is called Cognitive Neuroscience. This course will introduce you to Cognitive Neuroscience techniques (e.g., ERP, fMRI), as well as how such techniques have advanced our understanding of human cognition. We will cover topics such as object recognition, speech perception, memory, attention, reading, cognitive development, and cognitive disability. (1.5h lab). *Prerequisite(s): PSYC 2023, PSYC 2133, PSYC 2143.*

**PSYC 3083 Sensation and Perception**
Reviews research, theory and methodologies related to the study of sensation and perception in various sensory modalities (vision, audition, touch). An emphasis is placed on both physiological and cognitive determinants of our ability to extract and use information available in our sensory environment. Laboratory assignments will be used to explore theoretical and methodological issues in sensation and perception. (1.5h lab). *Prerequisite(s): PSYC 2023, PSYC 2173.*

**PSYC 3133 Comparative Psychology**
Examines animal behaviour across species to enhance our understanding of human behaviour. Topics will include cross-species differences in behavioural development, learning, cognition, reproductive behaviour and mating strategies, as well as social behaviour. These topics will be examined from an evolutionary perspective. This course is complementary to BIOL 3143. *Prerequisite(s): PSYC 2013 (or KINE 1113) or BIOL 3143; PSYC 2133 recommended.*

**PSYC 3183 Industrial/Organizational Psychology**
The application of psychological principles to business and industry. Emphasis on psychological research concerning the influence of organizational and social factors on behaviour and experience. Topics include organizational design, communication networks, power, stress, interorganizational relations. *Prerequisite(s): PSYC 2013 (or KINE 1113); PSYC 2103 or PSYC 2123.*

**PSYC 3193 Health Psychology**
The application of psychological principles to promoting health behaviour and to understanding, treating, and preventing illness. Topics may include behaviourial and psychological factors in illness; personality and disease; coping with acute and chronic illness; adherence to treatment; health education and primary prevention programs; stress management; management of pain and discomfort; and the role of the treatment setting. (1.5 h lab). *Prerequisite(s): PSYC 2023; PSYC 2113 or PSYC 2123.*

**PSYC 3243 Advanced Statistical Analysis in Psychology**
An in-depth examination of statistical analyses in Psychology. Topics include null hypothesis testing and parameter estimation for

between-subjects, within-subjects, and mixed research designs. Statistical tests include t-tests, ANOVA, correlation, and regression, with an emphasis on matching statistical analyses with research designs, as well as conducting, interpreting, and reporting results of analyses. Normally taken in third year. Required for honours program. *Prerequisite(s): PSYC 2013 (or KINE 1113) and PSYC 2023.*

**PSYC 3323 Psychopharmacology**
Examines the mechanisms and effects of legal and illegal drugs on behavior. Focuses on the mechanisms by which drugs exert their influences on the nervous system to induce altered states of consciousness and changes in mood, emotion, motivation, and cognition. *Prerequisite(s): PSYC 2013 (or KINE 1113), and PSYC 2133.*

**PSYC 3353 Advanced Developmental Psychology**
This course will involve an in-depth analysis of issues in developmental psychology. The content will include both theoretical and current research perspectives in developmental psychology. Laboratory assignments will be used to demonstrate research methodologies, theories and research findings in developmental psychology through active involvement in small research projects. (1.5h lab). *Prerequisite(s): PSYC 2023, PSYC 2153.*

**PSYC 3363 Advanced Social Psychology**
Advances in the study of social thoughts, feelings, and behaviours. Emphasis on theories and methodology. Laboratory assignments give hands-on experience in conducting social psychological research. (1.5h lab). *Prerequisite(s): PSYC 2023, PSYC 2103.*

**PSYC 3373 Clinical Psychology**
Roles and functions of clinical psychologists will be presented, with special emphasis on psychological assessment, therapeutic intervention, and community consultation. Also included in the course will be issues in method and inference associated with clinical research, and ethical issues that arise in clinical psychology. *Prerequisite(s): PSYC 2013 (or KINE 1113), PSYC 2113; PSYC 2123 recommended.*

**PSYC 3383 Human Neuropsychology**
This course covers brain-behaviour relationships within the context of experimental and clinical neuropsychology. Following an overview of neuroanatomy and neuropsychological assessment, specific neuropsychological conditions are covered such as epilepsy, amnesia, aphasia, agnosia, apraxia, and diseases such as Alzheimer's Disease and Huntington's Disease. *Prerequisite(s): PSYC 2013 and PSYC 2133*, or *BIOL 3063.*

**PSYC 3613 Psycholinguistics**
This course will examine the psychological and the neurobiological factors responsible for the perception, comprehension, and production of language. We will explore language processes in healthy adults, as well as language acquisition during infancy and childhood. Current theories of language disorders and second language learning will also be discussed. *Prerequisite(s): PSYC 2013 (or KINE 1113), PSYC 2143 or PSYC 2153.*

**PSYC 3623 Forensic Psychology**
Forensic Psychology is the application of psychological theory and research to the judicial system. The field of forensic psychology deals with a variety of topics such as police investigations, psychopathy, eyewitness testimony, jury decision-making, child victims and witnesses, and mental illness in court. *Prerequisite(s): PSYC 2013 (or KINE 1113) and PSYC 2103, or PSYC 2113, or PSYC 2143.*

**PSYC 4013 Readings in Psychology**
Designed to broaden the student's understanding of the field and to study an area of special interest in depth. Students are expected to present a plan of study that usually involves extensive literature review and writing a paper. *Prerequisite(s): Permission of the Department.*

**PSYC 4053 Advanced Seminar in Psychopathology of Childhood**
An introduction to the field of behaviour disorders of children and adolescents. An examination of crises in normal development, diagnostic considerations, and the incidence of emotional and behavioural disorders in childhood. Within this perspective, a survey of the predominant syndromes, their etiology, and current treatment approaches. Implications for prevention programs are discussed. *Prerequisite(s): PSYC 2013 (or KINE 1113), PSYC 2113, PSYC 2153 and restricted to students who are registered in their third or fourth year of study.*

**PSYC 4073 Special Topics in Psychology**
The focus and instructor will vary as determined by the department. The topic matter will be of general interest and applicability to all Psychology majors. The course will not count towards either the Neuroscience Option or the Applied Option. *Prerequisite(s): Restricted to students with third- or fourth-year standing with backgrounds appropriate to the particular subject matter, as determined by the course instructor or department.*

**PSYC 407T Honours Thesis 1**
This course requires the student to propose and carry out a study and submit a thesis written according to American Psychological Association format and regulations provided by the University Honours Committee. The thesis is supervised by a Psychology faculty member. The thesis grade is determined by the thesis supervisor and an additional Departmental faculty member. The thesis must be presented orally in a symposium organized by the Department. *Prerequisite(s): Open only upon permission of thesis supervisor and department.*

**PSYC 408T Honours Thesis 2**
This course requires the student to propose and carry out a study and submit a thesis written according to American Psychological Association format and regulations provided by the University Honours Committee. The thesis is supervised by a Psychology faculty member. The thesis grade is determined by the thesis supervisor and an additional Departmental faculty member. The thesis must be presented orally in a symposium organized by the Department. *Prerequisite(s): PSYC 407T, open only upon permission of thesis supervisor and department.*

**PSYC 4083 Advanced Seminar in Tests and Measurements**
An introduction to the development and use of psychological tests for research and clinical assessment. The review of test construction and evaluation will examine methods of item analysis, reliability, and validity. Prerequisite(s): *PSYC 2013 (or KINE 1113), PSYC 2113 or PSYC 2123 and restricted to students who are registered in their third or fourth year of study.*

**PSYC 4103 Advanced Seminar in Theories of Psychotherapy**
The course will survey the major theories of psychotherapy, their conceptual foundations, and main principles. It will also examine the research that supports these theories and the effectiveness of their techniques and applications to psychological disorders. Individual, group, and family therapies will be reviewed. *Prerequisite(s): PSYC 2013 (or KINE 1113), PSYC 2113; recommended: PSYC 2123, PSYC 3373. Restricted to students who are registered in their third or fourth year of study.*

**PSYC 4183 History of Modern Psychology**
A survey of how the discipline of psychology has evolved from the mid-19$^{th}$ century to current times. The major themes, topics, and debates related to the science and practice of psychology will be examined in their historical contexts. The course is designed for students who plan to pursue advanced studies in psychology. *Prerequisite(s): Restricted to students who are registered in their third or fourth year of study.*

**PSYC 4223 Research Project in Psychology**
Designed to broaden the student's understanding of scientific research methods in one area of psychology through direct research experience. Students are expected to develop a plan of study that will involve original data collection and/or archival data mining. The statistical analyses, interpretation and write up of these data may also be involved. *Prerequisite(s): Permission of the Department.*

**PSYC 4233 Intergroup Relations**
An in-depth exploration of intergroup relations from a social psychological perspective. Theory and research about the processes involved in stereotyping, prejudice, and discrimination. Students will learn about empirical research in the field of intergroup relations and will emerge from the course with an understanding of stereotyping, prejudice, and discrimination theory and research. *Prerequisite(s): PSYC 2013 and PSYC 2103.*

**PSYC 4243 Writing for Psychological Science**
This course focuses on developing effective writing skills for communicating psychological science to various audiences, including the public. Through readings, writing exercises, and workshops, students will enhance their transferable communication abilities. Weekly assignments will undergo peer review, and guest lectures from science writers will enrich the learning experience. *Prerequisite(s): PSYC 2013 and PSYC 2023.*

**PSYC 4323 Developmental Cognitive Neuroscience**
This course will focus on select topics related to how age-related changes in neuroanatomy have been linked to cognitive development throughout the lifespan. An emphasis will be placed on reading and understanding current research. *Prerequisite(s): PSYC 2023, PSYC 2133, PSYC 2143 or PSYC 2153, and restricted to students who are registered in their third or fourth year of study.*

**PSYC 4343 Neurodegenerative Diseases**
This course will focus on recent scientific findings concerning the neuropsychological and the neurobiological changes associated with neurodegenerative diseases, such as Alzheimer's, Parkinson's, Huntington's, and multiple sclerosis. *Prerequisite(s): PSYC 2023, PSYC 2133, PSYC 3383 or BIOL 3063 and restricted to students who are registered in their third or fourth year of study.*

**PSYC 4413 Special Topics in Neuroscience**
The focus and instructor will vary as determined by the department. The topic matter will be of particular interest to students in the Neuroscience Option, and course credit will be granted towards the Neuroscience Option; however, the course is open to any interested students with appropriate background. *Prerequisite(s): Restricted to students with third- or fourth-year standing with backgrounds appropriate to the particular subject matter, as determined by the course instructor or department.*

**PSYC 4423 Special Topics in Applied Psychology**
The focus and instructor will vary as determined by the department. The topic matter will be of particular interest to students in the Applied Option, and course credit will be granted towards the Applied Option; however, the course is open to any interested students with appropriate background. *Prerequisite(s): Restricted to students with third- or fourth-year standing with backgrounds appropriate to the particular subject matter, as determined by the course instructor or department.*

## Sociology

**SOCI 1013 Introduction to Canadian Society**
This course introduces sociological concepts, principles, and approaches through a focus on issues of relevance to Canadian society such as political economy, aboriginal rights, ethnocultural diversity, and immigration, among others.

**SOCI 1033 Social Problems**
This course introduces sociological concepts, principles and approaches through a focus on social problems in contemporary societies. Problems to be explored may include the following: consumerism, population growth, hunger, poverty, economic development, environment, disease, Indigenous groups and ethnic conflict, peasant protests and resistance, intimate violence, drug use, immigration and sexual orientation.

**SOCI 1113 Introduction to Cultural Anthropology**
As an introductory course in cultural anthropology, the course is intended to familiarize students with customs, beliefs, behaviours and institutions held by people throughout the world. Emphasis is placed on understanding and interpreting cultural behaviour, and the meanings humans assign to cultural phenomena, in order to facilitate communication and dialogue.

**SOCI 2003 Introduction to Social Research**
An introduction to the ways sociologists and socio-cultural anthropologists conduct research. Students will develop an understanding of qualitative and quantitative methodological principles with an emphasis on qualitative research. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2013 Introduction to Social Data Analysis**
An introduction to basic skills in quantitative research methods with a focus on descriptives. Students will focus on SPSS. *Prerequisite(s): SOCI 2003 with a minimum grade of C- or better or permission of the instructor.*

**SOCI 2023 Sociology of Law**
This course examines law as a social phenomenon enmeshed in 'everyday life', rather than conceiving of law as existing only in official institutions (courts or legislatures), in legal documents (acts, regulations, and orders) or practiced by 'legal actors' (lawyers, judges and police officers). Through various theoretical approaches, students will analyze legal change and the risk of law in social organizations. *Prerequisite(s): 6h of 1000-level SOCI courses or 3h of 1000-level SOCI and LAWS 1003.*

**SOCI 2033 Writing in the Social Sciences**
Students are introduced to the craft of writing and research in social sciences, learning to employ writing as a mode of inquiry and communication, develop strategies for organizing the writing process, and gain experience writing in different non-fiction genres that use sociological research**.** This course is required for all Sociology major students. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2103 Thinking Through Society**
While not always amiable, much like society, theory can be accessible and compelling. (Sociological) Theory is complex and weighted yet it need not be cumbersome. The purpose of this course is to introduce and engage the breadth of thought that roots a discipline from Marx to Weber alongside the rich contributions often overlooked or under-analyzed against the backdrop of a conventional canon via Khaldûn, Du Bois, and even Luxembourg. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2113 Issues in Developing Societies**
Current development issues confronting the peoples of the majority world are introduced. Topics may include: conventional and alternative models of societal development; imperialism; wealth creation and impoverishment; class, ethnic and gender dimensions of international development; forced migration and displacement; reform and revolution. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2123 Ethnic and Race Relations: A Canadian Introduction**
A brief review of fundamental concepts and models is followed by case studies of linguistic, ethnic, racial and religious groups. Special topics include immigration policy, multiculturalism and employment equity. *Prerequisite(s): Second-year standing.*

**SOCI 2133 Post-Colonial French Discourse**
This course introduces ideas and perspectives from leading French authors of the twentieth century. From structuralism to semiotics, authors from the French left advocated for a new, universal social discourse. Students will have the opportunity to analyze works from their original French, including Sartrian, Foucauldian, and Fanonian theories against social inequalities and prejudices. This course will be taught in French. *Prerequisite(s): 6h of 1000-level FRAN courses and 6h of 1000-level SOCI courses. Antirequisite(s): Credit can be obtained for only one of FRAN 2133 or SOCI 2133.*

**SOCI 2153 Social Inequality**
Major theoretical explanations and empirical evidence will be used to explore why there are those who "have" and those who "have-not," in terms of income, wealth, power, and status. Topics may include: the magnitude of social inequality, trends in social mobility; inequality by gender, race, and other ascribed characteristics; selected consequences of social inequality. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2223 The Sociology of Work**
Examines the history of work, inequalities between workers, and how work is structured and carried out from both descriptive and critical perspectives. Focusing on paid and unpaid work, the course also explores how work is a mechanism of social control and a cause of alienation, and how people resist these forces. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2233 Technology and Society**
This course introduces key issues and debates in the sociology of technology. The focus will be on the interplay between technology, social practices and cultural values. Topics may include the impact of social networking sites on friendship, how ideas about technology shape and direct social relations, and the social influences of emerging technologies. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2263 City, Space, Society**
Introduction to key concepts and ideas in the social scientific study of cities. Examination of cities as spaces of intense contradictions, between equality and discrimination, wealth and poverty, and individuality and conformity. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2323 Sociology of Families**
A theoretical and empirical review of the changing nature of families in response to social and economic forces over time. The issues will include partnering, parenting, intimate relations, gender roles, divorce, socioeconomic inequalities, work and family violence. Topics will be cross-cultural and Canadian. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2343 Sociology of Aging**
An introduction to aging in light of sociological theories and current research; comparative analysis of aging in traditional and industrialized societies, with an emphasis on Canadian society. *Prerequisite(s): 6h of 1000-level SOCI courses. This course is open to those registered in the Health Sciences Option without the usual prerequisites.*

**SOCI 2363 Women and Aging**
This course will explore the sociological relevance of issues related to the social, demographic, political and economic factors, which are major determinants to the well-being of aging women. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2373 Emotions and Society**
This course introduces sociological approaches to the study of emotions. Topics include emotional labour, feeling rules, collective emotions, public and political emotions, changes in the norms and patterns of emotion over time, and emotions in relation to activism, gender, class, racialization, nationalism, social media, violence and conflict. *Prerequisite(s): 3h of 1000 level SOCI courses and second-year standing, or permission of the instructor.*

**SOCI 2403 Gender and Sexuality 1**
A survey of socio-cultural perspectives and research findings in the areas of gender differences, gender inequalities, gender relations and diverse sexualities *Prerequisite(s): 6h of 1000-level SOCI courses. Antirequisite(s): Credit can be obtained for only one of SOCI 2403 or WGST 2403.*

**SOCI 2413 Indigeneity and Sociology**
This course engages selected topics in Indigeneity in relation to sociological perspectives and settler colonial processes. Particular attention is paid to Canada and to Mi'kma'ki. Topics may include: Treaties, treaty rights, and Indigenous sovereignty; settler colonization and Indigenous resistance and resurgence; Indigenous social theories, knowledge systems, and approaches; issues of justice, economics, education, environment, food sovereignty, health, and law. *Prerequisite(s): Second-year standing*.

**SOCI 2533 Popular Culture and the Media**
A survey of approaches to popular culture as an arena of domination and resistance. Focus is on representation, identity and difference in a variety of popular media forms. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2553 Sociology of Education**
The role of schooling in society with particular focus on who gets what type and amount of schooling, the formal and informal workings of school systems and cultures, the social consequences of schooling, and progressive education. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2563 Social Movements**
Organized attempts to promote social change. Emphasis is on substantive investigation of the impact of social class, gender, and racialization on the social origins, development and success or failure of a variety of social movements. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2713 Sociology of Deviance**
An examination of the social processes involved in the creation and definition of deviance. Topics may include mental illness, drug use, youthful deviance, as well as organizational, corporate, and state deviance and criminalization. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2723 Canadian Criminal Justice**
The criminal justice system and the structure of legal regulation and enforcement in Canada. Topics may include policing, court processes, modes of punishment, youth justice, wrongful convictions, and minority groups in the justice system. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2753 Principles of Criminology**
An introduction to some of the basic concepts of criminology and the sociology of law. Topics may include explanations of criminality, crime patterns and statistics, victimization, the role of the media, corporate and organized crime, and minority groups and crime. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 2853 The Sociology of Magic and Religion**
An examination of how belief systems and their symbolic representations give meaning to the universe and one's place in it. Topics to

include the nature of ritual, the structure of myth, magic, witchcraft and how these beliefs contribute to social and cultural change. *Prerequisite(s): 6h of 1000-level SOCI courses.*

**SOCI 3013 Contemporary Social Theory: Sociology in the Now**
This course provides a space for current thought within sociology to be analyzed and discussed. Topics, informed by new developments in theory and society, may include theories of class, gender, Indigeneity, and race; self and identity; inequality, social movements, solidarity, social change, and revolution. *Prerequisite(s): SOCI 2103 with a grade of C- or better, third-year standing or permission of department.*

**SOCI 3033 Theorizing Culture**
An introduction to the main paradigms for the analysis and interpretation of culture. Emphasis is on processes of meaning making, identity formation, materialism, idealism, and the relative autonomy of culture. *Prerequisite(s): SOCI 2103 with a minimum grade of C-, third-year standing or permission of the instructor.*

**SOCI 3043 Theories of Development and Revolution**
Marxist theories of revolution which have emerged in the advanced and developing societies, theories of development and underdevelopment, and contemporary social issues in post-revolutionary socialist societies. *Prerequisite(s): SOCI 2103 with a minimum grade of C-, third-year standing or permission of the instructor.*

**SOCI 3093 Social Thought: Continuity, Divergence, and Intersection**
Sociological theory has experienced abbreviations, adaptation, and atonement. This course attempts to capture the abundance of ideas that resonate against the backdrop of modernity alongside calls for emancipations possibly being heard for the first time (often silenced by the noise of oppression). Social Thought acknowledges the continuity of insights that bridge a past with the present while giving voice to how theories of liberations echo across and through generations. *Prerequisite(s): SOCI 2103 with a minimum grade of C-, third-year standing or permission of department.*

**SOCI 3103 Quantitative Data Analysis**
Development of skills in quantitative data analysis using SSPS and the writing of research papers. Examples used are primarily sociological, but examples from other relevant disciplines are included. This course is particularly useful for honours students planning to use quantitative analysis in their theses. *Prerequisite(s): SOCI 2003 and SOCI 2013, each with a minimum grade of C.*

**SOCI 3113 Qualitative Research Methods**
A practical and theoretical exploration of qualitative social science research. Students will gain experience with methods such as interviewing, focus groups, ethnography and participant observation; understand and undertake data analysis such as content analysis, narrative analysis, discourse analysis and thematic analysis; and gain familiarity with theoretical questions surrounding research practices including those raised by feminist, Indigenous, and global South interventions. *Prerequisite(s): SOCI 2003 and SOCI 2013, with minimum grades of C-.*

**SOCI 3133 Ethnic and Race Relations: Comparative Cases and Issues**
A review of key international issues and case studies in ethnic and race relations. Topics may include the following: racism, slavery, anti-Semitism, Protestant-Catholic relations in Northern Ireland, Afro-Americans, South African race relations, and ethnic nationalism in eastern Europe. *Prerequisite(s): SOCI 2123 and third-year standing or permission of the instructor.*

**SOCI 3143 Social Welfare and Social Policy**
This course examines, and critically evaluates, the social welfare system in Canada linking its history and ideological underpinnings to contemporary social policy and human services delivery. A variety of social welfare needs are explored and careful attention is paid to the lived effects of social policy based on gender, race, ethnicity, social class, abilities, age, and sexualities. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3163 Research Design and Analysis**
Students will design and undertake a social survey and carry out qualitative interviews. Topics covered may include: types of survey designs, sampling, designing questionnaires and qualitative interview schedules, coding, data entry, setting up computer files and doing preliminary data analyses. *Prerequisite(s): SOCI 2003 and SOCI 2013, each with a minimum grade of C-.*

**SOCI 3183 Sexual Assault in Canada**
Through legislation and academic scholarship, this course examines historical and contemporary socio-legal shifts and trends related to the crimes of rape and sexual assault in Canada. *Prerequisite(s): 12h of SOCI, or 6h of SOCI and 6h of WGST or permission of the instructor.*

**SOCI 3223 Food as a Social Issue**
An investigation of a variety of food-related topics, such as global food problems, the sociological factors in food consumption, Canadian food policy, the symbolic meaning of food, the role of gender, as well as the mass media in food choices. *Prerequisite(s): 12h SOCI, or 9h SOCI plus NUTR 2323 or permission of instructor.*

**SOCI 3253 Work, Family, and Gender**
Examines how work in both formal and informal economies have been gendered over time and across societies. Topics explored may include the gender wage gap, occupational sex segregation, balancing work and childcare, the outsourcing of housework, and worker,

state, and employer responses to these changing dynamics. Cross-listed with WGST. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3263 Sociology of Health and Healthcare**
An investigation of social factors and forces that affect health, illness and health care. The roles of health care providers, the state, and corporate interest groups in shaping experiences of health and illness and in determining the provision of healthcare will be analyzed from socio-historical, gendered, racialized and class perspectives. *Prerequisite(s): 6h 1000-level sociology courses, 6h 2000-level sociology courses or permission of instructor. This course is open to those registered in the Health Science Option without the usual prerequisites. Antirequisite(s): Credit can be obtained for only one of SOCI 2633 or SOCI 3263.*

**SOCI 3363 Sociology of Death and Dying**
A comparative investigation of the social construction of death and dying practices across different cultures. Special attention will be given to the notion of death as a socially accomplished phenomenon. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3373 Aging in Cross-Cultural Perspective**
The meaning and process of aging and the roles and statuses of the aged in a variety of modern and historical cultures. A comparison of social policies concerned with aging in different countries. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3393 Special Topics in Death and Dying**
A detailed examination into specific topics such as euthanasia/assisted suicide, grief and bereavement, children and death, suicide, religious and moral attitudes, AIDS, palliative care. *Prerequisite(s): SOCI 3363.*

**SOCI 3403 Gender and Sexuality 2**
An advanced course that examines socio-cultural perspective, research findings and theory in the areas of gender differences, gender inequalities, gender relations, and social organizations of gender and sexuality. *Prerequisite(s): 6h 1000-level SOCI, and SOCI 2403. Antirequisite(s): Credit can be obtained for only one of SOCI 3403 or WGST 3403.*

**SOCI 3433 Ethnography: Writing Cultures**
An ethnographic (*ethnos Greek for 'nation' or culture, graphy used to refer to the writing of*) investigation of a particular culture or region of the world. Focus is on the description, interpretation and analysis of experience to draw relevant comparisons between ourselves and others to foster understanding and better communication. Writing ethnography is an important component of the course. *Prerequisite(s): SOCI 2003 and SOCI 2013, each with a minimum grade of C-.*

**SOCI 3473 Sociology of Migration**
This course introduces students to one of the most timely topics in Sociology: migration. It provides key themes, concepts, and theories of migration and the contemporary flows, types, and causes of migration. Students examine the process of immigrant integration, the role of social institutions in immigrants' settlement, and the immigrants' everyday experiences of inclusion/exclusion in a local and global context. *Prerequisite(s): 6h of 1000-level SOCI or permission of the instructor.*

**SOCI 3503 Power Games: A Critical Analysis of Sport**
This course deconstructs how sport shapes and is shaped by contemporary society. Drawing on theories of class, gender, racialization, and sexuality, this course delves beyond the court, field, and rink, and critically probes the cultural and political-economic undercurrents of sport. *Prerequisite(s): 6h of 1000-level SOCI courses and third-year standing or permission of the instructor.*

**SOCI 3543 Debates in Marxism**
An examination of central debates in the development of Marxism in the Canadian and global contexts. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3593 Pacifism, Violence and Substantive Change**
Many states, social movements, and sectors of civil society have long applauded pacifist ideas and motives to facilitate progressive social change. This course contextualizes and deconstructs whether such measures support structural transformation. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3643 Sociology of Disability**
This course introduces students to the field of disability studies. Students will examine the medical and social models of disability and the impact they have on disabled people. Students will apply a critical lens to understand the lived experiences of disability throughout the life course. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3703 Crime and Punishment**
A cross-cultural and social historical examination of the social response to crime. Topics may include patterns of crime, the history of policing and forms of punishment, the evolution of the penitentiary, and comparative justice models. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3733 Sociology of Addictions**
The course examines the socio-cultural and discursive construction of addiction, and meanings we attach to immoderate use of licit and illicit substances. We also assess a variety of other immoderate behaviours. Topics may include history of alcoholism, theories of

addiction, recovery processes, embedded technologies of power and resistance, gambling, food, sex, Internet addictions, and addiction as a form of deviance. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3743 Criminal Law and Social Policy**
This course focuses on the sociological understanding of the origins, development, and interpretation of criminal law in Canada. The social construction of law is examined in the context of the Charter of Rights and Freedoms, judicial decisions, and social forces. Topics may include theories of law, women and the justice system, aboriginal and restorative justice. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3793 Violence**
This course examines a spectrum of violence and the ways in which violence affects our everyday lives, both explicitly and implicitly. Analyses range from overt expressions of force to covert forms of violence, such as institutional, structural, and discursively constituted violence. Areas may include violence against women, violence within sex work, political violence, terrorism, and resistance within oppressive systems. *Prerequisite(s): 6h 1000-level SOCI, 6h 2000-level SOCI or permission of the instructor.*

**SOCI 3803 Queer Studies**
This course provides an interdisciplinary examination of the social, cultural, political, and legal dimensions of sexual diversity and sexuality-based discrimination. This course covers topics such as the social construction of sexual identities, homophobia, transphobia, and heterosexism; queer theory and non-binary thinking; LGBTQ+ activism, education and advocacy; queer art and cultural production. *Prerequisite(s): 3h 1000-level SOCI and WGST 1413. Antirequisite(s): Credit can be obtained for only one of SOCI 3803 or WGST 3803.*

**SOCI 4003 Senior Seminar**
This course is required for honours Sociology students and provides a forum for discussion of thesis topics and procedures. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), and SOCI 2003, SOCI 2013, SOCI 2033, SOCI 2103, each with a minimum grade of B-. Restricted to Sociology honours students with fourth-year standing.*

**SOCI 407T Honours Thesis 1**
*Prerequisite(s): Restricted to Sociology honours students.*

**SOCI 408T Honours Thesis 2**
*Prerequisite(s): SOCI 407T. Restricted to Sociology honours students.*

**SOCI 4113 Seminar in Contemporary Culture**
Selected topics in cultural studies. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), SOCI 2003, SOCI 2013, SOCI 2033 and SOCI 2103, each with a minimum grade of C-.*

**SOCI 4123 Seminar in Political Economy and Development**
A seminar designed to examine in depth a variety of issues in political economy and development. Topics may include social class and elite formations, wealth and power, and underdevelopment and resistance in particular societies. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), SOCI 2003, SOCI 2013, SOCI 2033 and SOCI 2103, each with a minimum grade of C-.*

**SOCI 4133 Seminar in Social Research and Methodology**
An examination of one or more approaches to sociological research, particularly relevant as preparation for honours or masters level research. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), SOCI 2003, SOCI 2013, SOCI 2033 and SOCI 2103, each with a minimum grade of C-.*

**SOCI 4143 Seminar in Social Theory**
A seminar designed to examine a selected set of issues in sociological theory. Selected topics may include the works of pre-20th century or contemporary social theorists. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), SOCI 2003, SOCI 2013, SOCI 2033 and SOCI 2103, each with a minimum grade of C-.*

**SOCI 4153 Seminar in Work and Occupations**
A seminar designed to examine in-depth a variety of issues in sociology of work. Selected topics may include the aging of the labour force, technology, unemployment, and organized labour. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), SOCI 2003, SOCI 2013, SOCI 2033 and SOCI 2103, each with a minimum grade of C-.*

**SOCI 4163 Seminar in Gender and Feminism**
An examination of research in the areas of gender studies and feminist scholarship, of particular relevance for honours or masters level preparation. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), SOCI 2003, SOCI 2013, SOCI 2033 and SOCI 2103, each with a minimum grade of C-.*

**SOCI 4183 Seminar in Criminology and Deviance**
A seminar designed to examine in depth a variety of issues in the study of social deviance and criminology. Selected topics may include policing, courts, corrections, youth justice and minority groups and the justice system. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), SOCI 2003, SOCI 2013, SOCI 2033 and SOCI 2103, each with a*

*minimum grade of C-.*

**SOCI 4193 Seminar in Family Issues**
Selected topics are examined in the light of recent empirical findings and contemporary theories. These include mate selection, marriage, and class and ethnic variations among Canadian families. *Prerequisite(s): 21h SOCI completed including 6h 1000-level (from SOCI 1006, SOCI 1013, SOCI 1033, WGST 1413), SOCI 2003, SOCI 2013, SOCI 2033 and SOCI 2103, each with a minimum grade of C-.*

**SOCI 4223 Seminar in the Sociology of Global Health**
This course examines the local and transnational relations governing health and health care in global south settings. We investigate the relative role of international groups, nations, and local health care providers in shaping how health care is received (and not received). Topics include: political violence and care in conflict settings; poverty, structural violence, and neoliberalism; and diverging ideas about bodies and healing. *Prerequisite(s): 6h of 1000-level SOCI, SOCI 3263 or permission of instructor.*

**SOCI 4233 Seminar in Gender and Development**
This course focuses on theoretical and empirical explanations of how global development processes affect gender inequality and social relations. Students will gain an understanding of how the theories, actors, and ongoing challenges of development interact with and work to shape socially constructed gender relations in a global perspective. Special attention is paid to how globalization influences gender in development processes. *Prerequisite(s): 6h of 1000-level SOCI, or permission of the instructor.*

**SOCI 4263 Issues in Health, Environment and Poverty: Communities at Risk**
This course explores the interrelationship between our health, the environment, and social inequalities including poverty. A central question to explore will be “what can/does sociology offer in the face of the climate crisis”? Assigned readings explore international and local cases, allowing students to build connections. *Prerequisite(s): Restricted to SOCI and ESST majors with third or fourth-year standing.*

**SOCI 4413 Class, Gender, Indigeneity, and Racialization**
This course examines exemplary analyses of the intersection of class, gender, indigeneity, and racialization in a variety of social settings. *Prerequisite(s): 21h SOCI completed including 6h from 1000-level SOCI; plus, all of the following: SOCI 2003, SOCI 2013, and SOCI 2103.*

**SOCI 4473 Boundaries, Borders, Belonging**
The course provides a critical lens toward the boundary-making processes among “us” and “them” and in relation to the individuals’ social location. By addressing key themes, concepts, and theories related to self and belonging, group culture, and boundary-making, it examines the identity-making processes and social groups’ experiences of inclusion and exclusion in the context of everyday life. *Prerequisite(s): 6h of 1000-level SOCI, or permission of the instructor.*

**SOCI 4906 Independent Study**
Individual research on problems selected by students in consultation with the department. *Prerequisite(s): Permission of Head of Department. Restricted to Sociology majors.*

**SOCI 4913 Directed Individual Readings in Sociology**
Designed to deepen the student's understanding of sociological literature and, in turn, directed toward a specific interest. Intended primarily for qualified seniors and honours students. *Permission of Head of Department.*

## Spanish

**SPAN 1013 Introductory Spanish Language 1**
For students with no previous knowledge of Spanish. The fundamentals of Spanish are presented with a variety of effective teaching methods with emphasis on both oral and written expression. Customs and culture of the Spanish-speaking world are introduced through readings, films, music, and contact with Spanish speakers. By the end of the first year the student is expected to have mastered the essentials of the Spanish language.

**SPAN 1023 Introductory Spanish Language 2**
For students with no previous knowledge of Spanish. The fundamentals of Spanish are presented with a variety of effective teaching methods with emphasis on both oral and written expression. Customs and culture of the Spanish-speaking world are introduced through readings, films, music, and contact with Spanish speakers. By the end of the first year the student is expected to have mastered the essentials of the Spanish language. *Prerequisite(s): SPAN 1013 or permission of the Department.*

**SPAN 1113 Intermediate Spanish 1**
Spanish 1113 is intended for students who are false beginners, students who have studied Spanish in High School, or years ago, but who have not proceeded beyond the beginners’ level. Further acquisition of the Spanish language through a review of its basic grammatical elements will be covered. *No prerequisites.*

**SPAN 1123 Intermediate Spanish 2**
Spanish 1123 is intended for students who are false beginners, students who have studied Spanish in High School, or years ago, but who have not proceeded beyond the beginners’ level. Further acquisition of the Spanish language through a review of its basic grammatical elements will be covered. *Prerequisite(s): SPAN 1113 or permission of the Department.*

**SPAN 2113 Spanish Communication Skills 1**
This course focuses on the development of the four communicative skills in Spanish through situational dialogue work, vocabulary-building exercises, task-oriented comprehension activities, and thematic and cultural readings and stories which provide stimuli for pair work, group discussions and writing activities. Selected points of grammar will be reviewed as necessary. *Prerequisite(s): SPAN 1023. Corequisite(s): SPAN 2013 or permission of the Department.*

**SPAN 2123 Spanish Communication Skills 2**
This course focuses on the development of the four communicative skills in Spanish through situational dialogue work, vocabulary-building exercises, task-oriented comprehension activities, and thematic and cultural readings and stories which provide stimuli for pair work, group discussions and writing activities. Selected points of grammar will be reviewed as necessary. *Prerequisite(s): SPAN 1023, SPAN 2013. Corequisite(s): SPAN 2023 or permission of the Department.*

**SPAN 3103 Advanced Grammar and Conversation 1**
Grammar review, composition, translation and oral practice based on literary readings of Spanish and Spanish American authors. Linguistic registers and regional dialects are discussed with reference to vocabulary building in formal and colloquial contexts. Written exercises and assignments based on the texts studied are required. Emphasis is placed on student interaction and exchange of ideas. *Prerequisite(s): SPAN 2013, SPAN 2023 or permission of the Department.*

**SPAN 3203 Advanced Grammar and Conversation 2**
Grammar review, composition, translation and oral practice based on literary readings of Spanish and Spanish American authors. Linguistic registers and regional dialects are discussed with reference to vocabulary building in formal and colloquial contexts. Written exercises and assignments based on the texts studied are required. Emphasis is placed on student interaction and exchange of ideas. *Prerequisite(s): SPAN 3103 or permission of the Department.*

**SPAN 3213 Literature 1: Middle Ages to Eighteenth Century**
Analysis of representative literature. Special study of Poema del Cid, Libro de Buen Amor, La Celestina, Lazarillo de Tormes, Don Quijote and other important works. Oral and written reports. *Prerequisite(s): SPAN 2013, SPAN 2023, SPAN 2113 or SPAN 2123.; Corequisite(s): SPAN 3103 or permission of the Department.*

**SPAN 3223 Literature 2: Romanticism to Contemporary Period**
Study of representative authors such as Bécquer, Valera, Galdós, Clarín, Unamuno, Antonio Machado, Valle Inclán, Lorca, Alberti and Juan Goytisolo*. Prerequisite(s): SPAN 3103, SPAN 3213. Corequisite(s): SPAN 3203 or permission of the Department.*

**SPAN 3313 Translation and Stylistics 1**
Designed to develop a good Spanish style through a close analysis of literary texts, exercises in translation and independent composition. *Prerequisite(s): SPAN 2013, SPAN 2113 or SPAN 2123. Corequisite(s): SPAN 3103; or permission of the Department.*

**SPAN 3323 Translation and Stylistics 2**
Designed to develop a good Spanish style through a close analysis of literary texts, exercises in translation and independent composition. *Prerequisite(s): SPAN 3103, SPAN 3313. Corequisite(s): SPAN 3203; or permission of the Department.*

**SPAN 3413 Spanish American Literature 1**
The major movements from the time of discovery to Independence. A selection of authors will be studied from the following representative group: Hernán Cortés, Inca Garcilaso de la Vega, Alonso de Ercilla y Zúñiga, Sor Juana Inés de la Cruz, Fernandez de Lizardi, Bolivar, Olmedo, J. Isaacs, Sarmiento, Echeverría, Heredia, José Hernández, Ricardo Palma, and Lillo. *Prerequisite(s): SPAN 2023; SPAN 2113 or SPAN 2123. Corequisite(s): SPAN 3103; or permission of the Department.*

**SPAN 3423 Spanish American Literature 2**
From modernism to present day. A selection of authors will be studied from the following representative group: José Martí, Rubén Darío, Rodó, Quiroga, Azuela, Mistral, Storni, Borges, Neruda, Paz, Vallejo, Rulfo, García Márquez, Cortázar and R. Castellanos. *Prerequisite(s): SPAN 3103, 3413. Corequisite(s): SPAN 3203; or permission of the Department.*

**SPAN 3513 Civilización y Cultura: España**
This course will develop your understanding of present-day Peninsular Spanish culture and society in the light of its historical development. It is also designed to develop command of written and oral Spanish and communication skills. This course is intended for majors and as an elective for non-majors in Spanish. *Prerequisite(s): SPAN 2013 and SPAN2023 or permission of the Department. Antirequisite(s): Credit can be obtained for only one of SPAN 2513 or SPAN 3513.*

**SPAN 3523 Civilización y Cultura: Hispanoamérica**
An overview of Spanish America beginning with pre-Columbian civilizations and covering major historical, political, social and economic developments, with an emphasis on the 20th century and on present-day Spanish American culture and society. Development of written Spanish and communication skills. Intended for majors and as an elective for non-majors in Spanish. *Prerequisite(s): SPAN 2013 and SPAN 2023 or permission of the Department. Antirequisite(s): Credit can be obtained for only one of SPAN 2523 or SPAN 3523.*

**SPAN 4023 Special Topics: Administrative Practices and Cultural Contexts**
Designed for students with a good command of the Spanish language, and a solid foundation in business vocabulary. An overview of

commerce in a global economy and a focus on organizational business practices in Spain and Spanish-America. *Prerequisite(s): SPAN 3203, SPAN 4013. Corequisite(s): SPAN 3313, SPAN 3323 or permission of the Department.*

## Theatre

**THEA 1483 Introduction to Theatre**
This course provides students with a practical introduction to the basic principles of acting and performance. Open to non-majors.

**THEA 2123 Theatrical Costumes**
This course examines the process for creating and producing costumes for the stage. It includes topics such as research and analyzing scripts for production costuming, fundamentals of costuming, relationships between production and creative teams, wardrobe organization, production running, materials and fabrics, and using costumes for a show from stock.

**THEA 2133 Theatrical Set and Props**
This course examines the process for creating and producing sets and props for the stage. It includes topics such as types of sets, research and analyzing scripts for sets and props, fundamentals of set and prop construction, painting, faux finishing, materials and sustainable and eco practices in constructing for the stage.

**THEA 2213 Acting & Performance 1**
Development of the basic principles of performance and acting. *Prerequisite(s): THEA 1483 and Theatre major or permission of the Theatre faculty.*

**THEA 2223 Acting & Performance 2**
Continuing development of the basic principles of performance and acting. *Prerequisite(s): THEA 2213.*

**THEA 2753 Performance Voice and Speech 1**
Introductory exploration of voice and speech for the performer. *Prerequisite(s): No prerequisites for non-majors; THEA 1483 and (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423) with a minimum grade of C- for majors.*

**THEA 2763 Performance Voice and Speech 2**
Continued exploration of voice and speech for the performer. *Prerequisite(s): No prerequisites for non-majors; THEA 1483 and (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423) with a minimum grade of C- for majors.*

**THEA 2803 Topics in Film**
An introduction to the language and critical vocabulary of narrative and non-narrative film. Mandatory weekly screenings outside of class time. *Prerequisite(s): (ENGL 1483/ENGL 1493) or (ENG 1413/ENGL 1423) with a minimum grade of C-; for majors, also THEA 1483.*

**THEA 2813 Advanced Topics in Film**
Advanced study of the formal and stylistic systems of narrative and non-narrative film. Mandatory weekly screenings outside of class time. *Prerequisite(s): THEA 2803 or permission of the instructor.*

**THEA 2823 Introduction to Production 1**
An introduction to production in the theatre. Basic production elements and procedures will be examined including theatre forms and stage management and two of the following – sets, scenic painting, properties, lighting, sound and costumes. This course includes classroom and practical, physical work in the theatre to develop basic skills. Clothing appropriate for work and safety is necessary. *Open to non-majors.*

**THEA 2833 Introduction to Production 2**
An introduction to production in the theatre. Complementary to THEA 2823. Basic production elements and procedures will be examined from four of the following – sets, scenic painting, properties, lighting, sound and costumes. This course includes classroom and practical, physical work in the theatre to develop basic skills. Clothing appropriate for work and safety is necessary. *Open to non-majors.*

**THEA 2853 Theatre Movement 1**
The goal of this course is to learn movement skills but also life skills. We live in our bodies so why not get to know them better? Course work is geared to developing body awareness, self-confidence, better posture, strength & flexibility. We will also introduce self-expression and creative use of physicality. *Prerequisite THEA 1483 or permission of the instructor.*

**THEA 2863 Theatre Movement 2**
This course will build movement vocabulary and creative use of physicality. Through embodied anatomy we will become aware of movement patterns and habits. The goal is to achieve a greater range of physical and emotional expression. Application of movement skills to text or scenes is introduced. *Prerequisite(s): THEA 1483 or permission of the instructor.*

**THEA 2883 Theatre Histories: Origins to Pre-Modern**
An examination of performance practice in world cultures from the origins of performance to the end of the pre-modern era. *Prerequisite(s): (ENGL 1483/ENGL 1493) or (ENG 1413/ENGL 1423) with a minimum grade of C-; also THEA 1483 for majors.*

**THEA 2893 Theatre Histories: Pre-Modern to Present**
An examination of performance practice in world cultures from the pre-modern to the present. *Prerequisite(s): (ENGL 1483/ENGL 1493) or (ENG 1413/ENGL 1423) with a minimum grade of C-; also THEA 1483 for majors.*

**THEA 3043 Production Design: Past and Present**
This course offers an overview of significant aspects of the history of theatre production design for the stage and considers current production design and practice.

**THEA 3133 Playwriting**
This course introduces the student to the principles of playwriting through an analysis of plays in various genres and the use of texts on dramatic theory. Students will work through projects assigned by the instructor, and are expected to submit proposals to MiniFest. Class work and the completion of a short play determine the student's mark in the course. *Prerequisite(s): (ENGL 1483/ENGL 1493) or (ENG 1413/ENGL 1423) with a minimum grade of C-; for majors, also THEA 1483.*

**THEA 3243 Dramaturgy**
The processes and functions of dramaturgy will be examined in both a practical and theoretical context. Students will learn how to apply critical discourse to text analysis, performance and theatre systems in a manner which reflects the practical needs and working etiquette of the theatre. Dramaturgs will be assigned to work in the Acadia Theatre Company's productions. *Prerequisite(s): (ENGL 1483/ENGL 1493) or (ENG 1413/ENGL 1423) with a minimum grade of C-; for majors, also THEA 1483.*

**THEA 3313 Acting & Performance 3**
Intermediate development and training in performance and acting. *Prerequisite(s): THEA 2223 or permission of the instructor.*

**THEA 3323 Acting & Performance 4**
Continued intermediate development and training in performance and acting. *Prerequisite(s): THEA 3313 or permission of the instructor.*

**THEA 3853 Theatre Movement 3**
This course integrates and applies movement skills which can continue to be used in other classes and going forward in your life. Students will develop a personal warm-up strategy. We will work with creative process and explore applications to specific performance or presentation needs of each student. *Prerequisite(s): THEA 2853 or THEA 2863 or permission of the instructor.*

**THEA 3863 Dance in History and Culture**
This is a studio course that introduces students to the evolution of social and concert dance in Europe and North America. We will also look at social dance in other cultures as time and opportunity permit. Although dance history will be covered, the primary focus of this course is experiential learning – in other words, dancing! *No prerequisite*.

**THEA 3883 Modern Drama/Theatre: Ibsen to WW2**
British, European, and North American dramatic literature and theatrical practice from the birth of modern drama to the middle of the 20th century. May be taken for English credit. *Prerequisite(s): (ENGL 1483/ENGL 1493) or (ENG 1413/ENGL 1423) with a minimum grade of C-; for majors, also THEA 1483.*

**THEA 3893 Modern Drama/Theatre: WW2 to Present**
British, European, and North American dramatic literature and theatrical practice from mid-20th century to the present. May be taken for English credit. *Prerequisite(s): (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423) with a minimum grade of C-; for majors, also THEA 1483.*

**THEA 3923 Canadian Drama and Film**
Contemporary theory and practice: an exploration of dramatic and cinematic aesthetics using contemporary Canadian texts and films. *Prerequisite(s): (ENGL 1483/ENGL 1493) or (ENGL 1413/ ENGL 1423) with a minimum grade of C-.*

**THEA 3973 Women and Theatre**
An historical survey of women working in and for the theatre as performers, playwrights, directors and designers. *(ENGL 1483/ENGL 1493) or (ENG 1413/ENGL 1423) with a minimum grade of C-; for majors, also THEA 1483.*

**THEA 4013 Special Topics in Theatre 1**
Independent study in acting and performance, directing, playwriting, dramaturgy, research, or movement. *Prerequisite(s): THEA 1483 and (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423) with a minimum grade of C-, and permission of the Theatre faculty.*

**THEA 4023 Special Topics in Theatre 2**
Independent study in acting and performance, directing, playwriting, dramaturgy, research, or movement. *Prerequisite(s): THEA 1483 and (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423) with a minimum grade of C-, and permission of the Theatre faculty***.**

**THEA 4313 Performed Violence 1**
Unarmed and non-bladed techniques in the illusion of violence for performance, at an internationally recognized certification 350 level. *Prerequisite(s): No prerequisite for non-majors; THEA 1483 and (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423) with a minimum grade of C- for majors.*

**THEA 4323 Performed Violence 2**
Bladed techniques in the illusion of violence for performance, at an internationally recognized certification level. *Prerequisite(s): No prerequisite for non-majors; THEA 1483 and (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423) with a minimum grade of C- for majors.*

**THEA 4413 Acting and Performance 5**
Advanced techniques and development in training for performance and acting. *Prerequisite(s): Theatre Major with THEA 3323 or permission of the instructor.*

**THEA 4423 Acting and Performance 6**
Continued advanced techniques and development in training for performance and acting. *Prerequisite(s): Theatre Major with THEA 4413 or permission of the instructor.*

**THEA 4613 Digital Theatre**
A survey of the historical development of media-rich performances and consideration of the theoretical, aesthetic, and practical implications for theatrical storytelling. *Prerequisite(s): THEA 2883, THEA 2893 and at least one of THEA 3883, THEA 3893, THEA 4833, THEA 4843 or permission of the instructor.*

**THEA 4833 Theatre Ideas 1**
Ideas that have changed how societies think about and practice theatre, with a focus on their contemporary relevance. Topics include ideas in scenic design, playwriting, acting and audience reception, from the Greeks to the dawn of modern theatre. *Prerequisite(s): THEA 1483 and (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423), each with a minimum grade of C-.*

**THEA 4843 Theatre Ideas 2**
Ideas that have changed how societies think about and practice theatre, with a focus on their contemporary relevance. Topics include ideas in scenic design, playwriting, acting and audience reception, from Naturalism to current international theatre practice. *Prerequisite(s): THEA 1483 and (ENGL 1483/ENGL 1493) or (ENGL 1413/ENGL 1423), each with a minimum grade of C-.*

**THEA PD03 Practice: Production**
Students will produce, rehearse, and perform a production under the direction of Theatre faculty. Some students will be cast and receive instruction in acting, some will receive instruction in direction, dramaturgy, stage management, publicity, set construction, and/or lighting, sound, wardrobe, and prop design; and some will participate onstage and offstage. May be repeated for a total of 18 credit hours.

## Women's and Gender Studies

**WGST 1413 Introduction to Women's and Gender Studies**
This course provides an interdisciplinary introduction to gender as a means of analyzing power and inequality. Students develop tools to investigate how gender shapes everyday experience as well as how it intersects with sexuality, class, race, ethnicity, religion and spirituality, and ability. Topics of discussion include colonialism and Indigeneity, feminist histories, climate justice, media, global capitalism, health, and masculinity. *Prerequisite(s): This course is open to students who have completed fewer than 60h, or with permission of instructor.*

**WGST 2013 Environmental Justice and Equity**
Environmental problems do not affect all people equally, nor do the same solutions work for all groups. Using an intersectional feminist perspective, this course examines how gender, race, class, colonialism, and geography position people unevenly in relation to environmental benefits (e.g., natural resources, food) and harms (e.g., contamination, disasters), and explores examples of communities resisting injustice and building alternative futures. *Prerequisite(s): Second-year standing (i.e., >24h completed). Antirequisite(s): Credit can be obtained for only one of WGST 2013 or ESST 2013.*

**WGST 2193 Women in Science**
This course will explore issues affecting women in science and attempt to answer the questions: Why so few? How can we effect change? Through an examination of research on topics such as implicit bias, stereotyping, and messaging in popular culture, the barriers to women entering scientific fields and ways to challenge and overcome them will be explored. *Prerequisite(s): Second-year standing or higher. Antirequisite(s): Credit can be obtained for only one of PSYC 2193 or WGST 2193.*

**WGST 2403 Gender and Sexuality 1**
A survey of socio-cultural perspectives and research findings in the areas of gender differences, gender inequalities, gender relations and diverse sexualities *Prerequisite(s): 6h of 1000-level SOCI courses. Antirequisite(s): Credit can be obtained for only one of WGST 2403 or SOCI 2403.*

**WGST 2913 Global Women's Movements**
The course will interrogate women's movements around the globe. Using historical and contemporary case studies, we will explore what leads women to mobilize, the resources that help or hinder these movements, and the conditions of women's lives that spark action for social change. Cases will cover a diversity of regions and issues (such as religion, politics, health, and labour). *Prerequisite(s): Second-year standing.*

**WGST 2923 Women and Gender in Today's World: A Cross-Cultural Perspective Part 1**
This course is the first of two consecutive and paired courses that add up to one full-year course. It analyzes the nature, status, image and changing roles of women and men in the world today, placing gender at the forefront of analysis from a cross-cultural perspective, with comparisons to Canada. May be taken for major or minor credit in Canadian Studies and Sociology. *Prerequisite(s): Second-year standing or higher. C0requisite(s): WGST 2933. Antirequisite(s): WGST 2906.*

**WGST 2933 Women and Gender in Today's World: A Cross-Cultural Perspective Part 2**
This course is the second of two consecutive and paired courses that add up to one full-year course. It analyzes the nature, status, image and changing roles of women and men in the world today, placing gender at the forefront of analysis from a cross-cultural perspective, with comparisons to Canada. May be taken for major or minor credit in Canadian Studies and Sociology. *C0requisite(s): WGST 2923. Antirequisite(s): WGST 2906.*

**WGST 3023 Feminist Theory**
The course examines the historical evolution of feminist theory in the west through the analysis of theoretical texts across academic disciplines. Topics of discussion vary but include key concepts such as identity politics, religion, class, race, (trans)gender, sexuality, and the body; intersectionality; language and politics; activism and globalization. May be offered for major credit in English, Politics, and Sociology. *Prerequisite(s): Second-year standing or higher.*

**WGST 3123 Feminism and Popular Culture**
This course examines through a feminist lens ways women and gender are constructed and represented in popular culture. Close attention is paid to how women and men are differentially represented (and represent themselves) along lines of race, class, sexuality, ability, etc., and reviews contemporary cultural theories of representation, tools for creating critical cultural analysis, and debates in feminist media studies. *Prerequisite(s): WGST 1413 and third-year standing or permission of the instructor.*

**WGST 3203 Black Women in Politics**
This course explores the political expressions of Black women in Canada and the United States from slavery to the present. Through books, primary sources, and film, we will examine how Black women in Canada and the United States articulated themselves as political actors even though, for most of this period, they have been defined outside of the body politic. *Prerequisite(s): WGST 1413*

**WGST 3403 Gender and Sexuality 2**
An advanced course that examines socio-cultural perspective, research findings and theory in the areas of gender differences, gender inequalities, gender relations, and social organizations of gender and sexuality. *Prerequisite(s): 6h 1000-level SOCI, and SOCI 2403. Antirequisite(s): Credit can be obtained for only one of WGST 3403 or SOCI 3403.*

**WGST 3503 Making Men and Women: Gender Through the Ages**
Major writings which contributed to or were about the construction of gender throughout history. Students may read excerpts from classical texts to modern treatises and their significance for men's and women's lives will be considered. May be offered for major credit in English, history, and sociology.

**WGST 3703 Special Topics in Women's and Gender Studies**
An in-depth study of a selected topic in the area designed to enable students to take advantage of the particular expertise of visiting or current faculty. May include topics such as domestic violence, women in film, women and food, or women in science. *Prerequisite(s): WGST 1413 or permission of the instructor.*

**WGST 3803 Queer Studies**
This course provides an interdisciplinary examination of the social, cultural, political, and legal dimensions of sexual diversity and sexuality-based discrimination. This course covers topics such as the social construction of sexual identities, homophobia, transphobia, and heterosexism; queer theory and non-binary thinking; LGBTQ+ activism, education and advocacy; queer art and cultural production. *Prerequisite(s): 3h 1000-level SOCI and WGST 1413. Antirequisite(s): Credit can be obtained for only one of WGST 3803 or SOCI 3803.*

**WGST 407T Thesis 1**

**WGST 408T Thesis 2**
*Prerequisite(s): WGST 407T.*

**WGST 4903 Directed Individual Readings in Women's and Gender Studies**
Designed to deepen the student's understanding of particular topics in Women's and Gender Studies. Intended primarily for qualified fourth-year and honours students. *Prerequisite(s): Permission of WGST Program Coordinator.*

**WGST 4913 Women of the African Diaspora**
A conceptual and thematic exploration of the ways in which race, gender, sexuality and socio-economic status have influenced the experiences of African-descended women. Focus is on individual and group experiences of women of the African Diaspora in the Americas and beyond. How have societies shaped and been shaped by the African Diaspora? What impact(s) has the African Diaspora had globally? *Prerequisite(s): WGST 1413 and WGST 3023 or permission of the instructor.*

**WGST 4923 Contemporary Feminist Issues**
This course is an in-depth examination of contemporary issues and debates within Women's and Gender Studies. Students will pursue

advanced scholarship on a particular area, while also reflecting on feminist theories, methodologies, politics and activism.
*Prerequisite(s): WGST 1413, and either WGST 3023 or permission of the instructor.*

# PART VIII: GRADUATE PROGRAMS, DEGREE REQUIREMENTS, AND COURSES

Acadia offers programs of study leading to the following graduate credentials:

| | |
|---|---|
| MA | Master of Arts |
| MAK | Master of Applied Kinesiology |
| MCD | Master of Community Development |
| MED | Master of Education |
| MSC | Master of Science |
| PHD | Doctor of Educational Studies |

## Research and Graduate Studies

Office of Graduate Studies, Horton Hall, Room 214
Ph: (902) 585-1914; Fax: (902) 585-1096
http://gradstudies.acadiau.ca

Graduate Studies at Acadia are administered through the Office of Graduate Studies. The Vice-Provost, Academic Policy and Graduate Studies is chief administrative officer.

**Administration**
**Office of Graduate Studies**

| | |
|---|---|
| Vice-Provost Academic Policy & Graduate Studies | Dr. Kate Ashley |
| Graduate Studies Officer | Theresa Starratt |

**Office of Research and Innovation**

| | |
|---|---|
| Vice-Provost Research and Innovation | Dr. Peter Ludlow |
| Grants Facilitator | Kate Spooner |
| Executive Director, Industry & Community Engagement | Leigh Huestis |
| Manager, Industry Partnerships | Katrin Sommerfeld |

**Graduate Program Coordinators**

| | |
|---|---|
| Applied Geomatics | Dr. Mo Snyder |
| Biology | Dr. Mark Mallory |
| Chemistry | Dr. Nicoletta Faraone |
| Community Development | Dr. Gabrielle Donnelly |
| Computer Science | Dr. Elhadi Shakshuki |
| Education | Dr. Deborah Toope |
| English | Dr. Nandini Thiyagarajan |
| Environmental Science | Dr. Nelson O'Driscoll |
| Geology | Dr. Deanne van Rooyen |
| Applied Kinesiology | Dr. Matthew Vierimaa |
| Mathematics and Statistics | Dr. Richard Karsten |
| Political Science | TBA |
| Psychology | Dr. Anne Sophie Champod |
| Social and Political Thought | Dr. Jesse Carlson |
| Sociology | Dr. Sarah Rudrum |

**Graduate Programs Offered**

| | |
|---|---|
| Master of Arts (MA) | English |
| | Political Science |
| | Social and Political Thought |
| | Sociology |
| Master of Science (MSc) | Applied Geomatics |
| | Biology |
| | Chemistry |
| | Computer Science |
| | Environmental Science |
| | Geology |
| | Mathematics and Statistics |
| | Psychology |
| Master of Education (MEd) | Curriculum Studies |
| | Counselling |
| | Inclusive Education |

| |
|---|
| Master of Community Development (MCD) |
| Master of Applied Kinesiology (MAK) |
| Doctor of Educational Studies (PhD) |

For information on the graduate programs offered by the Acadia Divinity College please consult the Principal, Acadia Divinity College, Acadia University, Wolfville, NS, Canada, B4P 2R6.

## Research at Acadia

Research is central to Acadia's mission of preparing students for success in a contemporary and changing world, and we want undergraduate students to be introduced to hands-on research opportunities early and often. Our vibrant culture is driven by active faculty and student research programs, the work of our formal research centres and institutes, our ongoing investment in the development of research facilities, and the programs of our research chairs.

Our Strategic Research Plan 2024-2030 has identified the following research strengths:

**Climate change and Sustainable Aquatic and Terrestrial Ecosystems**
Research under this theme seeks an understanding of natural environments and ecosystems while focusing on critical environmental issues, including climate change, changing coastal and marine habitats, developing conservation strategies for biodiversity, and exploring sustainable resource management practices.

**Agriculture, Agri-food, and Biotechnology**
Acadia University is located in Annapolis Valley, the agricultural heartland of Nova Scotia, and has a long history of working with farmers and agri-organizations. We have developed significant agriculture-related research strengths representing several disciplines across the University, including food security and economics, wine tourism, nutrition and dietetics, value-added food and beverage product development and sensory analysis, natural product chemistry, including bio-products and encapsulation techniques, plant development and propagation, fungal endophytes and fungal diseases, aquaculture, soil health, data analytics, and integrated pest management, including significant research on invasive pest species affecting Atlantic Canada. Much of this research area uses an inter- or trans-disciplinary approach, with current research projects that combine expertise from nutrition, chemistry, biology, business, community development, economics, and sociology.

**Health and Wellness**
Acadia's health and wellness research encompasses a wide array of studies aimed at understanding and improving the physical, mental, emotional, spiritual, and social well-being of individuals and communities. Researchers often prioritize the needs of rural and Indigenous Nova Scotians, including food security, access to health services and community-based programs, the effects of homelessness, an aging population, and racialized communities. This nationally recognized research results in evidence-based solutions that improve quality of life, reduce health disparities, promote sustainable health practices, and inform government decision-making. Health and wellness research at Acadia is inherently multidisciplinary and collaborative, involving a significant number of researchers from across the campus, as well as a variety of participants and collaborators from the community and all levels of government. Key areas of investigation include disease and injury prevention and management, physical activity, exercise and behavioural health, social health and wellness, childhood disabilities, nutrition and food security, mental health, Indigenous health, environmental health, and policy development.

**Bridging History, Culture, and Society**
At Acadia, our researchers interpret history, culture, and society, while responding to problems and possibilities that bridge subjects, disciplines, and communities. We recognize that the liberal arts play an important role in illuminating the complexities of our world within a society that is ever-changing. We continue to champion a community of researchers who examine these complexities in fields including business, languages, literature, media, politics, history, economics, art, critical theory, and philosophy within and beyond disciplinary boundaries. Our research identity supports all stages of research creation, from individual investigations to collaborative projects. We also recognize and celebrate creative contributions in the arts, humanities, social sciences, fine arts, music, and drama.

**AI and Data Analytics**
AI and data analytics research at Acadia University spans a diverse range of disciplines and underpins many research programs across campus. Within computer science, business, and mathematics, Acadia has nationally and internationally acclaimed researchers specializing in data collection, mining, machine learning, statistics, mathematical modelling, simulation, and data visualization. The Acadia Institute for Data Analytics (AIDA) spearheads many of these efforts, applying data analytics and machine learning to tackle real-world problems in health, agriculture, food production, environmental sustainability, and green energy. Researchers from the humanities and professional studies also lead a variety of AI-related research programs and projects that help understand the economic, political, social and cultural impacts of AI, as well as examine ways to enhance academic research, communications and pedagogy using AI and emerging technologies. The adoption and use of emerging technologies are guided by management and policy research, and foundational research is looking at using AI tools to improve physical and mental health. Research into the psychology and neuroscience of human- AI interactions is driving the creation of new technologies, while innovative data management and modelling studies are ensuring sustainable fisheries and exploring the renewable energy potential in the Bay of Fundy.

**Research Centres & Institutes**

Acadia Centre for Baptist and Anabaptist Studies
Acadia Centre for Estuarine Research
Acadia Centre for Microstructural Analysis
Acadia Institute for Data Analytics (AIDA)
Acadia Laboratory for Agri-Food and Beverage (ALAB)
Acadia Tidal Energy Institute
Acadia University's Planter Studies Centre
Centre for Analytical Research on the Environment
Centre for Interdisciplinary and Language Programs
Centre for Sensory Research of Food
Centre of Lifestyle Studies (COLS)
E.C. Smith Herbarium
Esther Clark Wright Archives
Harriet Irving Botanical Gardens
Humanities Hypermedia Centre
K.C. Irving Environmental Science Centre
Motion Lab for Applied Biomechanics (mLAB)
Prudentia Institute's Student Research Lab
Statistical Consulting Centre
Vaughan Memorial Library

## Graduate Programs

The following section outlines the requirements for each graduate program at Acadia. Programs are listed alphabetically. Courses are outlined in the next section.

## Applied Geomatics (MSc)

Department of Earth and Environmental Science; Huggins Science Hall, Room 327
Ph: (902) 585-858; morgan.snyder@acadiau.ca

The Master of Science in Applied Geomatics is a unique graduate program jointly offered by the Nova Scotia Community College and Acadia University. We stress that students apply for this program only after completing the Diploma Program in GIS, Remote Sensing or Marine Geomatics at the College of Geographic Sciences Nova Scotia Community College Lawrencetown Campus. Entrance into the program is dependent upon available funding and supervision.

The Master of Science Applied Geomatics is a two-year program of collaborative coursework/research and data interpretation, where students spend normally: two terms at the Nova Scotia Community College (Centre of Geographic Sciences-CoGS and/or Applied Geomatics Research Group-AGRG), two terms at Acadia University and a further two terms on research at either one or both institutions. Students will complete a Research Thesis or a Research Project under the joint supervision of faculty members from Acadia University and AGRG-CoGS. Students will become skilled in the assembly, analysis, interpretation, and presentation of biological, geological, or environmental data – addressing an approved research subject and problem.

The fundamental relevance of this program is that its graduates will be fully competent to tackle existing or predicted environmental problems, from solid theoretical and practical foundations, using a variety of skills, and an array of new technologies. Graduates of this program will become society and industry leaders in mapping, planning, analysis, understanding and stewardship of the natural environment.

**Admission Requirements**

Candidates for admission to this program must possess an Honours degree, or a four- year bachelor's degree, from an approved university. Undergraduate degrees in Biology, Earth and Environmental Science and Physical Geography are most compatible with this degree. Candidates should have at least a B- average in relevant disciplines in the last two undergraduate years. Before applying for this MSc degree program students will have been enrolled in the NSCC Geomatics diploma program; acceptance is also subject to availability of positions, faculty advisors and adequate funding. Acceptance of a qualified candidate will also be contingent on letters of support from appropriate referees.

**Application Deadline**

Students normally apply for entry into the M.Sc. AG program while enrolled in the NSCC Geomatics diploma program. Students in this program will be jointly co-advised by one faculty member from Acadia and one from NSCC Applied Geomatics Research Group (AGRG). Students who are interested in this program must contact either Dr. Mo Snyder (Acadia University, morgan.snyder@acadiau.ca; 902.585.1858) or Dr. Steven Edwards (CoGS, steven.edwards@nscc.ca) before applying to determine if funded, jointly supervised projects are available at the time of application.

### MASTER OF SCIENCE IN APPLIED GEOMATICS (RESEARCH THESIS)

Term one (Fall Term at NSCC-CoGS): Students are enrolled in the Advanced Diploma in Geomatics (GIS, Remote Sensing or Marine Geomatics).

Term two (Winter Term at NSCC CoGS): Students are enrolled in the Advanced Diploma in Geomatics (GIS, Remote Sensing or Marine Geomatics).

Term three (Summer Term at NSCC –AGRG and/or Acadia dependent on research interest) GISY 6400 Major Project (Capstone: Requirements for the NSCC Advanced Diploma completed.). Thesis research GEOL/BIOL 5960 commences.

Term four (Fall Term at Acadia and/or NSCC –AGRG dependent on research interest).

Two courses at Acadia University approved by the supervisory committee at least one of which must be at the 5000-level. Applied Geomatics Seminar GEOM 5900. Thesis research GEOL/BIOL 5960 continues.

Term five (Winter Term at Acadia and/or NSCC –AGRG dependent on research interest). Applied Geomatics Seminar GEOM 5903.

Thesis research GEOL/BIOL 5960 continues.

Term six (Summer Term at Acadia and/or NSCC –AGRG dependent on research interest).

Thesis research GEOL/BIOL 5960 completed.

## MASTER OF SCIENCE IN APPLIED GEOMATICS (RESEARCH PROJECT)

Students who choose to complete a research project rather than a thesis must complete Terms One, Two and Three as described under the Research Thesis option. They must complete the course work described under the Research Thesis option in Terms 4 and 5 and two additional courses from the approved list of graduate courses at Acadia University. They must also complete the Research Project course (GEOM 5990).

Term four (Fall Term at Acadia and/or NSCC dependent on research interest).

Applied Geomatics Research Project (GEOM 5990) commences. Course work continues.

Term five (Winter Term at Acadia and/or NSCC dependent on research interest).

Applied Geomatics Research Project (GEOM 5990) continues. Course work completed.

Term six (Summer Term at Acadia and/or partly at NSCC dependent on research interest)

Applied Geomatics Research Project (GEOM 5990) completed.

## Biology (MSc)

Department of Biology; Biology Building, Room 302
Ph. (902) 585-1334; Fax: (902) 585-1059; biology@acadiau.ca

Within the graduate program, emphasis is placed on research rather than course work. Individual programs of study are determined by the candidate's supervisor and committee. The advisory committee consists of the supervisor and at least two other faculty members or research associates. Applicants are advised to contact their prospective supervisor directly at the time of application. Acceptance of a qualified candidate is made primarily on the recommendation of the prospective supervisor.

**Program Requirements**

1. BIOL 5960 and BIOL 5013.
2. 6h advanced courses from any of BIOL 5023, BIOL 5033, BIOL 5043, BIOL 5053, or BIOL 5253, or appropriate undergraduate courses adjusted to a graduate level and approved by the supervisor and Graduate coordinator.
3. Additional courses as directed by the supervisory committee.
4. A thesis proposal is generally completed within six months of initial registration and evaluated.

**Courses**

Tutorial courses are designed according to the special needs of the student(s) enrolled in them. Candidates should also consult the Undergraduate Calendar for advanced undergraduate courses. Such courses may be taken for credit in the graduate program.

**Special Research Facilities**

Special research facilities on campus include growth chamber facilities and culture rooms; a low-level radiation laboratory, including a liquid scintillation counter; a Coulter counter; complete light microscope units including phase contrast, inverted and fluorescence microscopes; scanning and transmission electron microscope units; infrared gas analyzers; electrophoresis units for protein and nucleic acid research; GPS and GIS facilities; microbial fermenters. The laboratories in animal physiology, histology, and developmental anatomy are well-equipped. The W. Garfield Weston Research Centre provides a modern animal holding facility. The department owns land on Bon Portage Island, Heckman's Island, Brier Island, Partridge Island, Seal Bridge Light, Waterloo Lake, and Hemeon's Head. Acadia University is also partnered with Ducks Unlimited Canada and Irving Oil Ltd. to manage and offer research facilities at the Beaubassin Research Centre near Aulac, NB.

**Bon Portage Island** is a low-lying exposed offshore island which supports rich, rocky inter-tidal diversity and a large colony of nesting Leach's storm-petrels. The Island is home to the Richardson Field Station in Biology and the Atlantic Bird Observatory. The Island facilities can accommodate 30 or more individuals, and is used extensively for field courses and research.

The **Animal Care Facility** is a newly constructed facility that has state-of-the-art suites for maintaining and studying a variety of marine, aquatic and terrestrial species under carefully controlled conditions of temperature, humidity, light, etc.

The **EC Smith Herbarium** houses more than 200,000 specimens, and is the most comprehensive collection of vascular plants and fleshy fungi in Atlantic Canada. Specimens within the herbarium provide the basis for honours and master's theses at Acadia, as well as serving as an important reference collection for botanists world-wide.

The **K.C. Irving Environmental Science Centre and Harriet Irving Botanical Gardens** is a state-of-the art research and community Centre. It is equipped with research laboratories, molecular genetics laboratory, greenhouse, phytotron and growth chamber space in addition to botanical garden and the Irving Biodiversity Collection.

The **Acadia Museum**, including the R. W. Tufts Laboratory in Ornithology and the L. R. Fairn Wildlife Laboratory, houses about 4,500 bird and mammal specimens. Again, these teaching and reference collections provide the basis for a number of research projects.

The **Acadia Centre for Estuarine Research**, an outgrowth of biological research, is a separate unit within the Faculty of Pure and Applied Science. The Centre is intended to stimulate and coordinate multi-disciplinary research on the estuarine regions of the Bay of Fundy. Emphasis is generally on fundamental research and the work is undertaken in cooperation with other scientific agencies in the Maritime Provinces, particularly the Bedford Institute of Oceanography and the St. Andrews Biological Station. One major objective of the Centre is to attract scientists from other universities and research laboratories to work in cooperation with those at Acadia.

**Financial Assistance for Biology Graduate Students**
In addition to the awards found in the graduate awards section of this Calendar, the Biology Department offers the following support:

The **Alden B. Dawson Scholarship –** One or two scholarships are awarded annually for advanced study in biology, to a master's student or to an honours student. Dr. Alden B. Dawson (BA, Acadia 1915; PhD, Harvard, 1918; DSC, Acadia 1938) was a distinguished professor of anatomy and zoology at Harvard University.

The **Dr. J. Murray Beardsley Research Scholarship in Biology –** Two scholarships of approximately $2500 each, provided by the Grace Beardsley Trust Fund, are awarded on the recommendation of the Biology Department to students in the honours biology program. The scholarships are awarded at the end of the third year and are intended to enable the recipients to participate in a summer research program that will form the basis of their honours thesis. If in any year either scholarship is not awarded to an honours student, it may be awarded to a student enrolled in the master's program in biology. Letters of application are to be submitted to the head of the Department of Biology no later than March 15 of each year.

The **Carl H. McCarthy and Margaret Godfrey McCarthy Research Scholarship in Wildlife Biology:** A $2645 scholarship awarded on the recommendation of the Department of Biology to a graduate student in wildlife biology. The scholarship may be held for one or two semesters, during the summer, fall, or winter sessions, and is intended to enable the student to concentrate on research and thesis preparation. In any year, the fund may be halved to provide two scholarships, both of which will carry the above name.

The **Robie Tufts Research Scholarship in Biology:** A $2962 scholarship awarded on the recommendation of the Department of Biology to a MSc student specializing in ornithology. The scholarship is intended to assist the student in thesis research, and may be awarded for either the summer or fall/winter sessions. If in any year there is no qualified student in ornithology, the scholarship may be awarded to any graduate or undergraduate research student in biology.

## Chemistry (MSc)

Department of Chemistry; Elliott Hall Rm. 217
Ph: (902)585-1242; Fax: (902)585-1114; chemistry@acadiau.ca

**Admission Note**
Students not having an Honours degree (or 100 hours of lab- or field-based research experience) must complete sufficient courses with satisfactory standing to give them the equivalent of an Honours degree in chemistry.

**Program Requirements**
Students must complete 12 credit hours (12h/4 courses) toward the MSc degree in Chemistry.

1. CHEM 5013 and CHEM 5023.
2. Two elective courses will be chosen in consultation with the thesis advisor, and at least one of these must be 5000-level.
3. In addition to course work, all students must complete CHEM 5010 and CHEM 5960. Research on a thesis under the supervision of a member of faculty is obligatory. However, this research project may be done in an industrial or other external setting as a collaborative partnership with a faculty member within the Department of Chemistry.

**Courses**
Chemistry courses will normally be offered in alternate years or when there is sufficient demand.

**Graduate Research Seminars**
Review and discussion of research projects in progress and related literature. Graduate students are required to attend all departmental seminars.

**Special Research Facilities**
The Chemistry Department laboratories are equipped with standard equipment for research in chemistry and biochemistry. The Acadia Centre for Microstructural Analysis (ACMA), funded by the Canadian Foundation for Innovation (CFI), provides more sophisticated state-of-the-art equipment for surface analysis which includes 300 MHz NMR, FTIR, STM, AFM, SEM, TEM, confocal microscope and epi-fluorescence microscope. The Department maintains close contacts with the Agriculture Canada Research Station in Kentville; the Institute for Marine Biosciences (National Research Council), Halifax; the Fisheries Research and Technology Laboratory, Dalhousie University (Daltech); the School of Biomedical Engineering (Dalhousie University), Steacie Institute for Molecular Sciences (National Research Council) Ottawa, the Department of Food Science (University of Guelph), and the departments of Chemistry at the University of Western Ontario, University of Guelph, and the University of Ottawa.

## Community Development (MCD)

Department of Community Development; 24 Highland Avenue
Ph: (902) 585-1677; Fax**:** (902) 585-1051; http://commdev.acadiau.ca/

**Program Requirements**
Each candidate will take CODE 5033 (Community Development Seminar), CODE 5056 (Community Development Practicum), CODE 5073 (Research Methods), 3h advanced course with approval of the student's graduate advisor, and CODE 5960 (Thesis).

On an individual basis, students may be required to make up any deficiencies in their academic preparation.

**Partnerships**
We have close links with the professional community throughout Nova Scotia, Canada, and abroad. In addition, we have developed collaborative efforts with a number of other universities.

## Computer Science (MSc)

Jodrey School of Computer Science; Carnegie Building, Room 310
Ph: (902) 585-1331; Fax: (902) 585-1067; cs@acadiau.ca

**Admission**
In general, students required to make-up more than three undergraduate computer science courses will not be admitted. Individuals requiring more make-up courses may be considered based on their special research interests and preparation.

**Application Deadline**
Applications are processed as they are received. The application deadline for admission in September is May 1. Applications received by February 1 receive preference for funding. The application deadline for January is September 1.

**MASTER OF SCIENCE IN COMPUTER SCIENCE**

**For all graduate degrees in Computer Science:**
Students must take at least one course from each of three different topic areas in computer science – applications, systems, and theory.

Students are limited to at most 1/3 of their courses (excluding 0 credit hour courses) being cross-listed with undergraduate courses. Specific limits will be noted below for each degree option.

Students cannot take a graduate course that is cross-listed with an undergraduate course for which they already have an Acadia credit.

**Thesis Option**
1. COMP 5923 (Research Methods in Computer Science
2. 12h of COMP courses at the 5000+ level
   *At most one cross-listed graduate course
3. COMP 5960 (Thesis)

Students must have a supervisor at all times. The supervisor will approve certain decisions related to the course selection described below, direct research related to the thesis topic, evaluate the student's progress, and help to select members of the thesis examining committee.

The program normally requires two years of study.

Graduate students must prepare a short formal thesis proposal as part of COMP 5960 to be approved by the school. The proposal must be submitted at least six months prior to the thesis defence.

**Project Option**
1. COMP 5923 (Research Methods in Computer Science)
2. 15h of COMP courses at the 5000+ level
   *At most two cross-listed graduate courses
3. COMP 5950 (Project)

The program normally requires 12-16 months of study. Students must have a supervisor when enrolled in COMP 5950. The supervisor will approve the research project, direct the student’s work, and evaluate the student's progress.

Graduate students must prepare a short project proposal as part of COMP 5950 to be approved by the supervisor before work begins. Graduate students must prepare a concise project report and present their work to the school through a short talk and/or demonstration.

**Course Option**

1. COMP 5923 (Research Methods in Computer Science)
2. 21h of COMP courses at the 5000+ level
   *At most two cross-listed graduate courses

The program normally requires 12-16 months of study.

**General**

Graduate students requiring undergraduate makeup courses need to complete those courses by the end of the first year (unless there is a scheduling conflict, in which case they must follow the advice provided by the supervisor and the Graduate Coordinator). In some instances, students may be given more time to complete the undergraduate requirements. However, all undergraduate and graduate level courses must be completed by the end of the second year with a minimum grade of B- in each course.

**Financial Assistance**

See the Graduate Awards section of this Calendar. In addition, prospective graduate students are strongly urged to apply for any non-university awards. Students who are Canadian citizens or permanent residents are urged to apply for Natural Sciences and Engineering Research Council Awards. Citizens of Commonwealth countries should make application in their own countries for Commonwealth Scholarships for tenure at Acadia University.

**Co-operative Education**

A Co-operative Education Option is available to students who are enrolled in any of the three program options (project, course, or thesis) for the Master of Science in Computer Science degree. Co-op offers eight months of work experience in industry while students are completing the requirements for their degree. Students must complete two 4-month Co-op work terms to graduate with the Co-op Option. Work terms are non-credit courses, graded as pass or fail, and are over and above the required courses for the degree. They are not considered as replacement courses. Students enrol in Co-op in September of their first year of study. Two terms of study must be completed prior to the student's first Co-op term. Co-op terms must be completed prior to the student's final full term of study.

## Education (MEd)

School of Education; Seminary House and Willett House
graded@acadiau.ca

The School of Education offers three programs leading to MEd degrees in Curriculum Studies, Counselling, and Inclusive Education.

**Professional Conduct**

The School of Education has adopted guidelines for the conduct of professionals enrolled in the School's undergraduate and graduate programs. As students and aspiring teachers, counsellors, and administrators, all members of the School of Education must sign and adhere to the Guidelines as outlined in the School of Education Professional Codes of Conduct specific to each program. These Guidelines make reference to a number of documents, including, but not limited to, the Acadia Non-Academic Judicial Student Code of Conduct, Acadia's Policy Against Harassment and Discrimination, Acadia's Sexualized Violence Policy, the Nova Scotia Teachers Union Code of Ethics, and/or the Canadian Counselling and Psychotherapy Association Code of Ethics & Standards of Practice.

In the event of perceived unprofessional conduct of a student, a university advisor or faculty member is required to bring it to the immediate attention of the Director of the School of Education. The Director of the School of Education shall call a meeting of the School of Education Professional Concerns Committee (PCC), which will examine the circumstances of the reported incident(s). In some cases, such as when the professional conduct of a student falls outside of the expertise of the committee, and/or occurs in a time and/or location outside of the field or practicum experience, the Director and the School of Education PCC may request assistance from other internal university officers (e.g., Equity, Diversity, and Inclusion Officer or Executive Director of Student Services) or other external practicum partners (e.g., Annapolis Valley Regional Centre for Education). In instances where conduct is related to alleged violations of the Acadia Non-Academic Judicial Code of Conduct or Acadia's Sexualized Violence Policy or Acadia's Policy Against Harassment and Discrimination, these cases would be referred to those relevant bodies (e.g., Discipline Committee, Responsible Authority for Sexual Violence). Decisions and actions taken by these bodies will also inform the decisions made by the School of Education PCC.

This Committee may recommend to the Dean of Professional Studies or Dean of Graduate Studies penalties, including the justification for the recommended sanction(s), which may include delay in program completion or failure of the field or practicum experience, or suspension or dismissal from their respective program. In all cases it is expected that all parties will treat the matter as confidential, and that they will refrain from discussion of the matter with others who are not directly involved. Students may appeal the penalty to the Senate Admissions and Academic Standing Appeals Committee within seven days of receiving the decision from the Dean of Professional Studies or Dean of Graduate Studies.

The **Master of Education in Curriculum Studies** is designed for educators and administrators who wish to engage in research and advanced study in curriculum and pedagogy.

The **Master of Education in Counselling** offers two streams. The School stream is intended for teachers who wish to pursue a career in school counselling. The Agency stream is for those interested in pursuing a career in counselling in any setting other than the public school system. All students begin the program in July and generally study for 14 months (18 months, effective July 2024 intake) in the full-time cohort and three years in the part-time cohort if following the non-thesis route. Thesis students should expect to spend additional time in their program.

The **Master of Education in Inclusive Education** is intended for individuals possessing some background in inclusive schooling and wishing to prepare for leadership roles in the area of inclusive education.

Master of Education programs are offered on a full-time and part-time basis. Graduate students in Education should be aware that their degree will normally include a combination of face-to-face and online courses. Core courses in the MEd in Counselling program are taught exclusively in person. Face-to-face courses are offered through a variety of models including: three hours once a week over 12 weeks, 4 weekends (Friday night and Saturday), 6 Saturdays, and two- and three-week intensive courses in the summer.

**Admission Requirements**
All applicants must meet the minimum graduate admission criteria as outlined below and should carefully note the program-specific information under Additional Admission Requirement(s).

- Applicants to all MEd programs must have at least a B average (73-76%) in the final two years of full-time equivalent (60 credit hours) university study, including coursework in undergraduate degree(s) and any graduate work completed. Applicants to the MEd Counselling Agency Stream would possess a relevant four-year undergraduate degree or its equivalent.
- Normally applicants to MEd programs other than Counselling Agency Stream would possess a Bachelor of Education degree or its equivalent (e.g., NS Teachers College plus an undergraduate degree). Application requirements for specialized part-time MEd cohorts may be more flexible. Cohort Specifics are documented on our website.

**Reference Forms**
Two references are required as part of your application.
- If you **have taken** a course in the last five years before the start date of your MEd program, or if you are currently enrolled in a course, one academic and one professional reference is required.
- If you **have not taken** a course in the last five years before the start date of your MEd program, two professional references are required.

An **academic reference** is from a current or recent instructor, teacher, or professor.

A **professional reference** is from someone other than an instructor/teacher/professor who would be familiar with your work. Your professional reference:
- should not be a family member, colleague or friend
- should not be someone that you have an ongoing, non-professional relationship with: this should be a **strictly professional relationship**
- should hold, or did hold, a **senior or administrative position, higher than your rank** now or in the past
- should be someone who oversaw your role or **someone that you reported to**
- should be able to evaluate your performance based on your job description or position at the time you worked with them

Note: For **MEd Counselling** applicants only: In rare circumstances, an applicant may not be able to attain an appropriate professional reference. In these situations, the applicant should make clear in their application why a professional reference could not be attained and must provide a reference from an individual that can speak to their professional capacity and to their potential for graduate studies within counselling.

**MEd (Counselling) Additional Admission Requirement**
- At the time of applying, applicants to the MEd Counselling must have accumulated the equivalent of two years of full-time, paid, relevant work experience and have completed a four-year undergraduate degree. The two full-time equivalent (FTE) years may be accumulated over a period longer than two years and include work experience before and after undergraduate degree completion. Your application will not be considered if you do not have this experience. Relevant work experience for those applying to the School Counselling stream includes teaching and/or other related work. Relevant work experience for those applying to the Agency stream is 'helping-focused' employment in social services areas (that calls for strong interpersonal and communication skills). Relevant volunteer work in addition to the two FTE years will be considered an asset. Please note that study cannot be counted as related experience.
- Applicants must provide a letter of intent outlining their motivations and aspirations in reference to the counselling program and profession.
- Applicants must participate in a virtual pre-interview program information session and a remote interview as part of the application review process.

**MEd (Inclusive Education) Additional Admission Requirement**
- Applicants must submit a letter of intent describing the nature and focus of study within Inclusive Education they wish to pursue. This letter should include a discussion of relevant academic study and professional experience related to the applicant's program interests.
- Two years of successful teaching or related experience AFTER the BEd has been conferred, except at the discretion of the Director, School of Education.

**MEd (Curriculum Studies) Additional Admission Requirement**
- Applicants must submit a letter of intent describing the nature and focus of study they wish to pursue. This letter should include a discussion of relevant academic study and professional experience related to the applicant's program interests.
- Two years of successful teaching or related experience AFTER the BEd has been conferred, except at the discretion of the Director, School of Education.

**Transfer Credits**
Students may, with approval of the Director or the Graduate Coordinator, transfer a maximum of 12h from other institutions. Normally, courses must be approved in advance. Requests to transfer courses must be made, in writing, to the Registrar of Acadia University and must include a copy of the official course description.

**Application Deadlines**
- **April 30th** is the deadline for applications to the MEd Inclusive Education graduate degree program in the School of Education for those intending to start their program in the Summer. Decisions will be available no later than March 31st.
- **May 1st** is the deadline for General Curriculum program applications for those intending to start their program in the Fall. Decisions will be available no later than August 1st.
- **December 1st** is the deadline for full and part-time applications in the MEd (Counselling) to start the program in the Summer. Admission decisions will be made no later than April 30th.

Assessment of applications will only begin once the deadlines have passed.

Given space availability, it is not possible to guarantee admission to all candidates who meet basic requirements. Unsuccessful applicants should not expect that resources are available to provide individual feedback or extended rationale for their unsuccessful application. The pool of applicants for individual programs changes each year and therefore the adjudication process is restarted.

The School of Education may approve a twelve-month deferral of MEd program entry to the following year for programs other than the Counselling program. Requests to defer approval of program entry must be made within 30 days of the date of the applicant's current offer of admission. One deferral of application allowed.

**Financial Assistance**
The School of Education offers a limited number of ***research assistantships*** valued between $1,500 and $4,500. The competitive process requires that a School of Education faculty member and ***full-time*** MEd student, submit a joint application that clearly demonstrates the way in which the work supports faculty research development while serving as a substantive research experience for the student. **First preference will be given to full-time thesis students after which full-time non-thesis applications will be considered.** The application form is available through the School of Education.

**MEd Program Requirements**
Course requirements vary according to program. Detailed information is presented below. A maximum of 6 graduate credit hours may be taken as electives from other Acadia University departments or schools with prior approval of the Director or Director's designate. Students in a Master of Education program may take a maximum of three (3) courses from the same instructor; exceptions require Director approval.

Students may complete the Master of Education by a course route or by including a thesis or project as well as courses. Students intending to pursue doctoral studies in education are urged to check with the institution(s) to which they plan to apply to see whether there is a prerequisite of a master's level thesis. Those choosing the thesis route will take EDUC 5966 in place of 6h elective courses. Those choosing the project route will take EDUC 5713 in place of a 3h elective course.

## MASTER OF EDUCATION (CURRICULUM STUDIES)
Students must complete 30 credit hours (30h):

**General Program**
Required courses (9h)
- EDUC 5513; EDUC 5633, EDUC 5643.

**Electives (21h course route, 12h thesis route)**
- Program electives are selected from graduate courses offered by the School of Education or from approved graduate courses offered by other departments or schools.

**Thesis Students (9h)**
- EDUC 5966 and (EDUC 5113 or EDUC 5523).

## MASTER OF EDUCATION (COUNSELLING)
Only students accepted into the Counselling program are eligible to take core courses. The Director, School of Education, in consultation with the course instructor may give special permission to take a core course to those students who possess a relevant counselling background.

Students must complete a minimum of 48 credit hours (48h) (48h non-thesis/51h thesis) in one of the following programs/concentrations:

Requirements for all Students (39h)
1. EDUC 5513, EDUC 50D3, EDUC 5033, EDUC 50P3, EDUC 50N3, EDUC 5133, EDUC 50J3, EDUC 50F3, EDUC 5543, EDUC 5623, EDUC 5343, EDUC 5353, EDUC 50E3.

**School Counselling Stream (3h)**
2. EDUC 50C3.

**Agency Stream (3h)**
2. EDUC 50K3.

**Non-Thesis Students (6h)**
3. Two 3h Counselling electives selected from graduate counselling courses offered by the School or approved graduate courses offered by other departments or schools that will bring total credit hours earned to 48h.

**Thesis Students (9h)**
- EDUC 5966 and EDUC 5113.

## MASTER OF EDUCATION (INCLUSIVE EDUCATION)

Students must complete 30h as follows:

**Required Courses (9h)**
1. EDUC 50H3, EDUC 5063, EDUC 5513.

**Electives (21h course route, 12h thesis route)**
2. Program electives are selected from graduate courses offered by the School of Education or from approved graduate courses offered by other departments or schools.

**Thesis Students (9h)**
3. EDUC 5966 and (EDUC 5113 or EDUC 5523).

**Full-/Part-Time Status**

Candidates may complete requirements for Master of Education programs through part-time study. Selected graduate courses in education are offered through Open Acadia. It is the student's responsibility to plan so that all program requirements are completed, seeking advice from the Graduate Education Coordinator, as may be required. Students interested in part-time study should access course scheduling information from Open Acadia, which is available from their website. Part-time students enrolled in the Counselling program should plan one year in advance for the required 500-hour block practicum for which they must be available on a full-time basis for four months.

Enrolment in EDUC 5066 is recognized as full-time status for both part-time and full-time students.

Students in part-time programs are requested to notify the school of their intention to register in the project or thesis course six months prior to registration.

A student's full-time or part-time status is determined by the number of credit hours in which they are registered per term. Registration in 9 or more credit hours in a given term is automatically considered full-time status.

Full-time students may enrol in a maximum of 12 credit hours during fall term and 12 credit hours during winter term. Full-time or part-time graduate students may take a maximum of 6 credit hours during any three-week summer session.

Full-time MEd students are eligible to opt out of the ASU Health and/or Dental Plans. Access to the health and dental plans is one of the many benefits of membership in Acadia Students' Union. Therefore, associated Students' Union fees will also be applied.

All students are automatically enrolled under the ASU Health & Dental Benefits. Students wishing to opt-out or add dependents to their coverage must do so during the allowed opt-in/out period at the beginning of their studies each year. To submit an application for review please visit https://studentvip.ca/asu. The opt-in/out icon will only be displayed while the opt-out/in period is active. The opt-in/out period opens on the 16th day of the month prior to your study start date and closes on the 15th day of the month your studies begin. Students looking for in-person support can contact the ASU Supports Office, on the main level of the Students' Union Building, Room 301- across from the Union Market. ASU Supports is also reachable to phone at 902-585-2167 or email at tanya.comeau@acadiau.ca. For immediate assistance call 1-888-918-5056.

The MEd Counselling program schedule for both full-time and part-time cohorts is designed to ensure that required courses are offered once to each cohort in a sequence that takes course prerequisites into consideration. If students fall out of sync with their cohort and need to pick up a course, they may enrol in course sections designated for other cohorts only with the permission of the instructor and only if there is available space.

Students not yet admitted to a Master of Education program may apply as "independent students" to take a maximum of 12h at the graduate level – this does not guarantee acceptance into a MEd program. Core required courses in the MEd Counselling program are not available to independent students. Such students must meet the academic admission requirements of the MEd program. Specifically, they must have a B average in the BEd program or, for those claiming BEd equivalency, a B average in the final two years of the undergraduate degree. Official undergraduate transcripts must be submitted in support of an admission application.

**Note:** Not all elective courses are available annually.

**Policy**
When circumstances warrant, individual faculty may grant extensions on course assignments; however, the maximum time allowed for submission of overdue assignments will be 30 days past the last day of the school term. Faculty will submit the grade earned by the student in the course by the appropriate deadlines set by the Registrar each term and, if necessary, complete a mark change form upon evaluation of any assignments students complete through contracted extensions.

Dismissal from the M.Ed. Program

Failure in any two courses (including field placement courses) in the M.Ed. program will result in dismissal from the program. This includes:

- Failing a course once, repeating the course and failing again.
- Failing a course, repeating the course and passing, and failing another course.
- Failing two different courses. There will be no opportunity to repeat the courses.

## Education (PhD)

The program Administration Office is currently located at Mount Saint Vincent University:

**Program Administrator**
Nova Scotia Doctoral Program in Educational Studies
Seton Academic Centre, Room 449G
Mount Saint Vincent University
Halifax, Nova Scotia, Canada
B3M 2J6
**Telephone:** (902) 457-6564
**Fax:** (902) 457-0197
**Email**: phd@msvu.ca

**IDAC Chair and Coordinator, Mount Saint Vincent University**
Dr. Ardra Cole
569 Seton Academic Centre
Mount Saint Vincent University
**Telephone:** (902) 457-6193
**Email:** ardra.cole@msvu.ca

The PhD in Educational Studies is offered in a collaborative partnership with Mount Saint Vincent University, Acadia University and St. Francis Xavier University. The research-oriented doctoral program is jointly administrated by the Inter-University Doctoral Administrative Committee (IDAC). Applicants are admitted to one university based on the location of their supervisor, and graduate from that Home Institution of Record.

Educational studies assume that education is a complex process that transpires in multiple contexts, takes many institutional forms, and is best understood from a wide range of disciplinary perspectives (natural, social, and human sciences). Doctoral students conduct advanced educational research, enabling them to participate in and influence contemporary academic research and policy discourses. They intellectually engage with complex educational issues in preparation to assume leadership roles related to education in Nova Scotia, and elsewhere.

Doctoral students can focus their studies on one or more of six interrelated themes: curriculum studies, educational foundations and leadership, inclusive education, lifelong learning, literacies, and the psychological aspects of education. These themes reflect current faculty research strengths and ongoing educational studies issues.

Applicants are encouraged to review the research interests of education faculty members at all three participating universities, available at their respective websites, as well as the research interests of other faculty members. Please visit this website for details about the Inter-University program and faculty currently accredited as supervisors at the three institutions, https://www.nsphdeducation.ca.

**Admission Requirements**
**Note:** An average of 10 students will be admitted each year: 4 at the Mount, 3 at St. F.X. and 3 at Acadia. Normally, IDAC will use a competitive admissions policy, but it will consider applicants on a case-by-case basis and waive the fixed application date, if deemed warranted and if space is available in the program for that year.

a) A master's degree from a recognized university in education or in a related field of study (a cognate discipline).
b) Normally, a graduate thesis in a field related to their doctoral studies. Those applicants who have not completed a thesis are required to submit evidence of their ability to undertake research in education through the completion of a qualifying research paper of sufficient depth and scope to reflect their research competence.
c) Evidence of scholarly preparation to conduct research, normally including graduate level courses in quantitative and/or qualitative research methods and design.

d) Three letters of reference, normally including two academic and one professional.
e) A recent curriculum vitae indicating current initiatives in education and any academic, scholarly work to date.
f) A letter of intent indicating a proposed area of study from among the six interrelated themes of educational studies.
g) A minimum of A- or 80% average in their highest degree.

**Note:**

- Qualified applications will only be admitted if a suitable supervisor and program can be provided.
- *Letter of Intent and Goodness of Fit:* Each applicant has to make a case that they are a good fit with the program objectives, interrelated theme(s), faculty interests, and their identified Supervisor. Making this case is a key part of the application process and is articulated in the Letter of Intent.
- Details regarding qualifying research paper can be found at https://www.nsphdeducation.ca/admissions/admission-requirements/qualifying-research-paper-qrp/

**English Language Proficiency**
To achieve success in this doctoral program, applicants must demonstrate strong reading, writing and comprehension skills in the English Language.

**Application Process and Deadlines**
**Note**: The Doctoral Program Application Package is available from the Doctoral Program Office in the Faculty of Education and online at http://www.nsphdeducation.ca

a) Applicants apply for their institution of choice (the Mount, Acadia or St. F. X.) through the Doctoral Program Office by November 15 for July 1 entry.
b) Applicant dossiers must be complete by the date above. It is the applicant's responsibility to ensure the dossier materials are sent in support of the application.
c) The IDAC will review all applications and, by majority agreement, recommend acceptance of applicants to the participating institutions.
d) For any applicants recommended to Acadia, the Doctoral Program Coordinator will assign an appropriate pro-tem (research) advisor.
e) Acadia's Graduate Studies Office will inform the applicant, in writing after March 1, regarding the decision of the IDAC. Acadia becomes the Institution of Record for all doctoral students formally admitted to Acadia University.
f) In addition to specific doctoral program requirements and regulations, Acadia students are bound by the regulations and procedures pertaining to graduate studies at Acadia (https://gradstudies.acadiau.ca/home.html).
g) Each pro-tem advisor (dissertation supervisor) will arrange for an entry meeting for their student(s) to develop a preliminary program plan and an initial outline of the proposed research area. This preliminary plan will be submitted in writing to the IDAC for approval using the Final Plan of Study Form (within a time frame specified by the IDAC), through the Doctoral Program Coordinator. Normally, this plan is completed by August 15th.

**Financial Assistance**
The School of Education offers a Work Study Award valued at $7500 to students during the 14-month residency of the program who are attending Acadia University full-time. In addition, full-time students will have an opportunity to compete for other sources of funding such as the Nova Scotia Provincial Graduate Scholarship through Acadia RGS.

**Health and Dental**
Full-time PhD students are eligible to opt out of the ASU Health and/or Dental Plans. Access to the health and dental plans is one of the many benefits of membership in Acadia Students' Union. Therefore, associated Students' Union fees will also be applied.

All students are automatically enrolled under the ASU Health & Dental Benefits. Students wishing to opt-out or add dependents to their coverage must do so during the allowed opt-in/out period at the beginning of their studies each year. To submit an application for review please visit https://studentvip.ca/asu. The opt-in/out icon will only be displayed while the opt-out/in period is active. The opt-in/out period opens on the 16th day of the month prior to your study start date and closes on the 15th day of the month your studies begin. Students looking for in-person support can contact the ASU Supports Office, on the main level of the Students' Union Building, Room 301- across from the Union Market. ASU Supports is also reachable to phone at 902-585-2167 or email at tanya.comeau@acadiau.ca. For immediate assistance call 1-888-918-5056.

**PhD Program Requirements**
All of the following are required courses: EDUC 8109 (Comprehensive Portfolio: Research/Scholarly Portfolio), EDUC 899Z (Dissertation and EDUC 8990 Dissertation Continuation), EDUC 8013 (Foundations of Educational Inquiry), EDUC 8023 (Methodological Perspectives on Educational Research), EDUC 8033 (Doctoral Seminar: Contemporary Educational Theory), EDUC 8043 (Focused Educational Studies (based on current roster of PhD students)), EDUC 8053 (Advanced Research Seminar: Focus on Methods)

**Required/Electives Courses**
At the time of admission, students will be advised if they are required, and they may choose to complete (in consultation with pro-tem advisor and with approval from IDAC):

EDUC 8063 and EDUC 8073 Special Topics Educational Studies.
EDUC 8083 and EDUC 8093 Independent Study.

Students must complete 6 courses (EDUC 8013, EDUC 8023, EDUC 8033, EDUC 8043, EDUC 8053, EDUC 8109) by undertaking full-time studies during four consecutive semesters (14-month residency) in a combination of an in-person summer institute followed by two terms of e-learning delivery. Students must register in a minimum of 1 course per year. Active students in the program are considered full-time throughout the program. Doctoral students have the right to take courses and seminars and use the academic facilities of any of the three participating universities in accordance with their approved plan of study.

Students normally defend their dissertation within two years after the portfolio examination, but no later than six years after entering the doctoral program, unless an extension has been granted. The dissertation final defense will be completed according to the approved Inter-university doctoral defense guidelines.

**Academic Standing**
PhD students will be graded according to the system in place at their home university. Students may not continue in the program with a failing grade. Under normal circumstances, any student receiving a grade below B- in any graded course will be required to withdraw from the PhD program. They do have the option to appeal a grade.

## English (MA)

Department of English and Theatre, Beveridge Arts Centre, Rm 415
Tel: (902) 585-1502; english.theatre@acadiau.ca

The Department of English and Theatre offers a one-year program leading to the Master's degree in English literature. Students participate in small seminar classes, work closely with a supervisor to complete a thesis that takes a fresh approach to a literary subject, and where possible are offered the opportunity to gain teaching experience. The Department welcomes a wide variety of scholarly and critical approaches, and its internationally recognized faculty cover a broad range of literature in English.

**Program Requirements**
Students accepted into the English MA program are admitted to a one-year program consisting of:

1. Four graduate-level courses (12 credit hours).
2. The non-credit Scholarly Methods (ENGL 5060).
3. A scholarly thesis (ENGL 5960).

Students are expected to complete all the course requirements for the MA degree during the fall and winter terms. In order to complete the program on time, students are also expected to spend much of the spring and summer completing the thesis requirement. A master's thesis should offer a fresh approach to a literary subject: it may be a literary argument based on research, critical analysis and coherent thinking, or it may be an editing project.

**Program Regulations**
Early in the fall term, students will submit to the graduate committee thesis proposals developed in consultation with departmental supervisors. Once the proposals have been approved, students begin the writing process under the guidance of their supervisors. The graduate committee has set firm dates for the submission of proposals and drafts with the design of moving students through the program within one academic year. Students should aim to submit theses for examination by July.

**Financial Assistance**
In addition to the awards found in the graduate awards section of this calendar, the English Department offers the following fellowships and scholarships:

**Aaron Jenkins Perry Memorial Fellowship (approx. $5630):** this fellowship was provided from the estate of Mrs. Jennie Perry and is awarded annually to a deserving student in the Master of Arts program in the Department of English with preference given to a student wishing to work in the field of Middle or Old English. Dr. Aaron Perry (BA, Acadia, 1901; MA '02; D.Litt.,'38; MA, Yale,'03) was a devoted teacher, administrator, researcher and author.

**Bittner Graduate Fellowship in English (approx. $4629):** this fellowship was established by the late Alice Homler Bittner in memory of her husband, William R. Bittner, who was a professor of English at Acadia from 1967-1977. The fellowship is awarded to a graduate student in the Department of English on recommendation of that department.

**Dr. Harrison H. Way Memorial Scholarship (approx. $1099):** this fellowship is awarded annually to a student pursuing their Master's degree in English literature, with a preference for a student working in Prose. The recipient will be chosen on the recommendation of the Graduate Committee in the Department of English and Theatre.

**Dr. Vernon Blair Rhodenizer Graduate Scholarship (approx. $1185):** a scholarship established by the late Dr. Vernon B. Rhodenizer (Head of the English Department, 1919-1954) is awarded annually to support study in English literature at the graduate level at Acadia University.

**Louise Morse Warne Scholarship (TBA):** the scholarship is awarded on recommendation of the Faculty of Arts to returning undergraduate and/or master's students who have graduated from a Nova Scotia high school or were homeschooled at their residence in Nova Scotia as described by the Nova Scotia Department of Education. The awards, which may be renewed, will be made to

students who have demonstrated superior ability and good qualities of leadership and character. Preference may be given to students majoring in English.

**William Inglis Morse Library Research Fellowship (approx. $965):** an annual fellowship endowed by the late William I. Morse, D.Litt. of Cambridge, MA. (Acadia'97) for research in English or History. Priority will normally be given to a graduate student, but failing such, the fellowship may be awarded to a senior honours student. The recipient shall perform the duties of curator of the William Inglis Morse Collection and avail himself/herself, so far as possible, of the resources of the collection in conducting their research.

Graduate students may also benefit from financial support by working as Research Assistants for faculty with grants.

**Research Facilities**
The Vaughan Library is particularly strong in Arthurian Literature (mediaeval and modern) and early Canadiana; the latter collection is estimated to be among the top five in the country. It includes the Eric R. Dennis Collection of Canadiana, the John D. Logan Collection of Canadian Literature, the Thomas Chandler Haliburton Collection, the Mermaid Theatre Collection, and the Watson Kirkconnell Collection of Kirkconnell's books and papers. The Esther Clark Wright Archives includes among its holdings manuscripts and papers of novelist Margaret Marshall Saunders and of the poet/novelist J. F. Herbin; the correspondence and literary criticism of Canadian litterateur, John D. Logan; and various other documents pertaining to writers as varied as John Lockhart ("Pastor Felix"), Silas Tertius Rand, Bliss Carman, Robert Norwood, W. W. Campbell, W. E. Marshall, Newton MacTavish, and John Ruskin.

**Faculty's fields of specialization**
Current research being conducted in the Department includes work on Arthurian Literature, early modern drama and culture, Shakespeare, the early novel, the Romantics, Victorian Studies, Canadian Studies and literature (including Atlantic Canadian, writing by women, modernism, and modern poetry), modern British fiction and poetry, twentieth-century American poetry, African literature, Caribbean literature, postcolonialism, literary theory, the digital humanities, media studies, video game studies, print culture and the history of the book, and literature and philosophy. The Department is particularly strong in research on medieval romance, manuscript study, William Shakespeare, British Aestheticism, Robert Browning, Augusta Webster, Leigh Hunt, Sylvia Plath, Anne Sexton, Ernest Hemingway, Erín Moure, children's literature, queer studies, law and literature, Gothic literature, travel writing, experimental poetry, and affect theory.

## Environmental Science (MSc)

Department of Earth and Environmental Science; Huggins Science Hall, Room 327
Ph: (902) 585-1679; nelson.odriscoll@acadiau.ca

The Department of Earth and Environmental Science offers instruction and research training leading to the MSc degree in Environmental Science. Within the graduate program, an emphasis is placed on research. Individual programs of study are determined by the candidate's supervisor. The advisory committee consists of the supervisor and at least one other Acadia University faculty member. Applicants are advised to contact their prospective supervisor directly before applying. Acceptance of a qualified candidate is made primarily on the recommendation of the prospective supervisor.

**Admission Requirements**
Candidates for admission to this program must possess an Honours degree, or a four- year Bachelor's degree, or its equivalent, from an approved university. Applicants with undergraduate degrees not meeting these qualifications would be evaluated on a case-by-case basis and can be approved by consensus among the supervisor, Graduate Coordinator, and Department Head. Undergraduate degrees in science, in particular Environmental Science, Environmental Geoscience, Environmental Engineering, are most compatible with this MSc degree. Candidates should have at least a B- average in relevant disciplines in the last two undergraduate years. Acceptance of a qualified candidate will also be contingent on letters of support from appropriate referees.

Initial inquiries should be addressed to the Graduate Coordinator, Department of Earth and Environmental Science at Acadia University or to a potential supervisor. Contact with and agreement from a potential supervisor are required prior to submission of your application.

**Application Deadline**
February 1 is the deadline for applications if you wish to be considered in the subsequent academic year, but enquiries are welcome at any time.

**Program Requirements**
The program requires the student to complete 4 (3h) courses at an advanced level plus a thesis. A typical course involves formal instruction for three hours per week for one term (12 weeks). Some courses may be taught in tutorial sessions or may be seminar and/or research oriented.
At least two courses must be at the 5000-level, and it is recommended that two of the additional courses be at the 5000-level or at an enriched 3000- or 4000-level. Candidates should consult the undergraduate calendar for descriptions of advanced undergraduate courses. A thesis proposal must be completed during the student's first year of study, and before the initiation of field work.

1. ENVS 5013 and one of ENVS 5033/ENVS 5043/ENVS 5053.
2. 6h to be selected from 5000 (graduate) level courses in BIOL, CHEM, ENVS, or GEOL or relevant courses currently in the Academic Calendar including ENVS 3113, ENVS 3423, ENVS 3503, ENVS 3513, and ENVS 4613 in consultation with supervisor.

3. Additional courses may be **requested** by the supervisor. The supervisor will meet within two weeks of registration to advise the student on course requirements.
4. A thesis proposal is generally completed within six to twelve months of initial registration. The proposal will be evaluated by either: (i) an oral presentation evaluated by the supervisor and at least one other faculty member chosen in consultation with the graduate coordinator or (ii) preparation of a formal written proposal circulated for faculty feedback and modifications incorporated in consultation with the supervisor.
5. ENVS 5960 (Thesis).

**Special Research Facilities**
Graduate students at Acadia have access to a wide variety of state-of-the-art laboratories and field facilities. Many of these are listed under the programs for BIOL/GEOL/CHEM MSc programs. For environmental research we have the following additional resources:

The **K.C. Irving Environmental Science Centre and Harriet Irving Botanical Gardens** is a state-of-the art research and community Centre. It is equipped with environmental research laboratories (water quality, contaminants, and ecosystem health), phytotron and growth chamber space in addition to botanical garden and the Irving Biodiversity Collection.

The **Center for Analytical Research on the Environment (CARE)** housed in the research wing of the K.C. Irving Environmental Science Centre contains laboratory equipment for the analysis of environmental contamination. Equipment includes HPLC-ICP-MS for cation analyses, ETV attachment, ion chromatograph for anion analyses, Shimazdu TOC/TIC carbon analyzer, mercury speciation analysis equipment (Tekran, Brooks Rand, Nippon), Milli-Q Element ultra-pure water system, and a wide range of radiometry, spectrographic, and water quality instruments. It also houses sample processing facilities (ovens, furnaces, autoclaves, balances) and cold/freezer storage.

The **EC Smith Herbarium** houses more than 200,000 specimens and is the most comprehensive collection of vascular plants and fleshy fungi in Atlantic Canada. Specimens within the herbarium provide the basis for honours and master's theses at Acadia, as well as serving as an important reference collection for botanists world-wide.

The **Paleoenvironmental Research Lab** is focused on paleolimnological and limnological research and provides the capability to obtain and analyze soft sediments obtained by gravity, percussion, and vibration coring techniques. Limnological equipment includes advanced sounding and sonar technology as well as portable water quality analyses capability. The lab houses energy dispersive and wave dispersive XRF spectrometers, colorimeters, centrifuges, and a variety of microscopy equipment.

The **Agricultural Research and Economic Sedimentology (ARES) laboratory** houses a Sorvall ST40 centrifuge and cathode-luminescence system with necessary supporting equipment (e.g., epoxy impregnator). ARES offers access to state-of-the-art analyses of chemical sediments and many other materials. This lab enhances Acadia's materials analysis capabilities, including the determination of spatial distribution of minerals in sedimentary ore deposits and petroleum systems.

The **Acadia Centre for Estuarine Research**, an outgrowth of biological research, is a separate unit within the Faculty of Pure and Applied Science. The Centre is intended to stimulate and coordinate multi-disciplinary research on the estuarine regions of the Bay of Fundy. Emphasis is generally on fundamental research and the work is undertaken in cooperation with other scientific agencies in the Maritime Provinces, particularly the Bedford Institute of Oceanography and the St. Andrews Biological Station. One major objective of the Centre is to attract scientists from other universities and research laboratories to work in cooperation with those at Acadia.

The **Acadia Centre for Microstructural Analysis (ACMA)**, funded by the Canadian Foundation for Innovation (CFI), provides more sophisticated state-of-the-art equipment for surface analysis which includes 300 MHz NMR, FTIR, STM, AFM, SEM, TEM, confocal microscope and epi-fluorescence microscope.

The Department of Earth and Environmental Science also has laboratory facilities housing research microscopes, photomicrographic equipment, and an in-house thin section and polished section preparation center.

**Dedicated Field Research Sites**
**Beaubassin Research Station** is situated in the Beausejour Marshes near Beaubassin and Fort Laurence National Historic Sites, on the border of New Brunswick and Nova Scotia and offers a broad range of learning and research opportunities. The Research Station is a partnership between Irving Oil, Ducks Unlimited Canada, and Acadia University. The original home on the property was restored to a research facility with accommodations for students conducting field work. Located on 1000 acres of coastal land bordering the upper Bay of Fundy, the historical and ecological importance of the Beaubassin site combined with the Station's residential and laboratory facilities make for an ideal setting for environmental research. Beaubassin Research Station is internationally recognized for coastal and wetland research and historical discovery. Research at the site is diverse ranging from waterfowl surveys to heavy metal accumulation, to salt marsh microbial activity. The Beaubassin Research Station is a wonderful resource for students considering costal or intertidal ecological study.

**The Morton Centre** is located on Heckman's Island, near Lunenburg, Nova Scotia. Originally an active farm, the 99-acre property comprises secondary-growth mixed coniferous and deciduous forest, two large hay fields, freshwater ponds, a salt marsh, and nearly two kilometers of shoreline. There is a cottage, with amenities to accommodate summer staff and retreat visitors. The Morton Centre was gifted to Acadia University by Dr. Harry and Rachel Morton in 1995., The Centre has been used in partnership with Bluenose Coastal Action foundation for environmental education as well as a field station for student research.

**Bon Portage Island** is managed by the Biology Department at Acadia and is a low-lying exposed offshore island which supports rich, rocky inter-tidal diversity and a large colony of nesting Leach's storm-petrels. The Island is home to the Richardson Field Station in Biology and the Atlantic Bird Observatory. The Island facilities can accommodate 30 or more individuals and is used extensively for field courses and research.

## Geology (MSc)

Department of Earth and Environmental Science; Huggins Science Hall, Room 327
Ph: (902) 585-1208; deanne.vanrooyen@acadiau.ca

The Department of Earth and Environmental Science offers instruction and research training leading to the MSc degree in Geology in the general areas of igneous and metamorphic petrology, regional tectonics, applied geochemistry, economic geology, structural geology, sedimentology, Quaternary geology, and environmental earth science.

**Program Requirements**
The MSc Geology program normally requires the student to complete 5* (3 credit hours) courses at an advanced level plus a thesis. A typical course involves formal instruction for three hours per week for one term (12 weeks) plus laboratory exercises. Some courses may be taught in tutorial sessions, or may be seminar and/or research oriented.

*Note: GEOL 5900 and GEOL 5903 are both required and are equivalent to one course.

At least two courses must be at the 5000-level, and it is recommended that at least two of the other 3 courses be at the 5000-level or at an enriched 3000- or 4000-level. GEOL 5903 (Graduate Seminar) is strongly recommended. Candidates should consult the undergraduate calendar for descriptions of advanced undergraduate courses. A thesis proposal must be completed during the student's first year of study, and before the initiation of field work.

Students enrolled in the Diploma in Remote Sensing or Diploma in Geographic Information Systems program at the Nova Scotia Community College - Centre of Geographic Sciences Campus (CoGS), Lawrencetown, N.S., may be eligible to subsequently enrol at Acadia with reduced requirements.

Graduate studies related to Earth and Environmental Science are also available through the Applied Geomatics graduate program described elsewhere in this calendar.

**Admission**
Initial inquiries should be addressed to the Graduate Coordinator, Department of Earth and Environmental Science or to a potential supervisor in the Department of Earth and Environmental Science. Contact with and agreement from a potential supervisor are required prior to submission of your application. Applicants to the MSc program in conjunction with CoGS must first apply to the diploma program at CoGS; subsequent application to Acadia will normally be done during the nine months of study at CoGS.

**Application Deadline**
February 1 is the deadline for applications if you wish to be considered for an Acadia Graduate Award in the subsequent academic year, but enquiries are welcome at any time.

**Research Facilities**
The Department of Earth and Environmental Science has laboratory facilities and equipment for most of the major fields of these disciplines, including research microscopes, photomicrographic equipment, and an in-house thin section and polished section preparation centre. The CFI-funded Paleoenvironmental Research Lab is focused on paleolimnological and limnological research and provides the capability to obtain and analyze soft sediments obtained by gravity, percussion, and vibration coring techniques. Limnological equipment includes advanced sounding and sonar technology as well as portable water quality analyses capability. The lab houses energy dispersive and wave dispersive XRF spectrometers, colorimeters, centrifuges and a variety of microscopy equipment. The Center for Analytical Research on the Environment (CARE) in the research wing of the K.C. Irving Environmental Science Centre is aligned with the Department of Earth and Environmental Science and contains laboratory equipment for the analysis of environmental contamination. Equipment includes HPLC-ICP-MS for cation analyses, ETV attachment, ion chromatograph for anion analyses, Shimazdu TOC/TIC carbon analyzer, mercury speciation analysis equipment (Tekran, Brooks Rand, Nippon), Milli-Q Element ultra-pure water system, and a wide range of radiometry, spectrographic, and water quality instruments. It also houses sample processing facilities (ovens, furnaces, autoclaves, balances) and cold/freezer storage. A scanning electron microscope with EDS is available in the Acadia Centre for Microstructural Analysis. Other major research facilities, including electron microprobe, and isotopic analysis equipment are accessible through cooperation with other universities in the region. Computer systems and software applicable to the remote sensing and GIS programs may be available through collaboration with CoGS.

## Applied Kinesiology (MAK)

School of Kinesiology; War Memorial Gymnasium
Ph: (902) 585-1307; Fax: (902) 585-1702; http://kinesiology.acadiau.ca/

The Master of Applied Kinesiology (MAK) program offers students the opportunity to advance their knowledge, building a strong foundation in preparation for successful professional careers. The MAK degree features three streams, an Applied Research Stream requiring a thesis, a Coaching Stream non-thesis and course based, and an Exercise Stream also non-thesis and course based.

The Applied Research Stream aims to equip students with the skills and abilities to have an impact not only within a research environment, but outside of the research enterprise as well. The Applied Research Stream will require students to not only develop a deeper understanding of their research topic, but also of the areas in which this knowledge can be applied within the field. This stream builds on the existing strengths of, and opportunities available within, the School of Kinesiology. There will be a focus on collaboration, a hallmark of the small institution setting, but also a key component of successful impact projects. Further, students will work within a learning environment that includes state of the art research laboratories in which to conduct their research (e.g., mLab, COLS), while also having access to nationally recognized community-based programming in the fields of athletic therapy (AT), chronic disease management (Acadia Cardiac Maintenance, Diabetes Management), clinical care (Exercise is Medicine on Campus), physical activity across the lifespan (Kinderskills, AAA) and adapted physical education (S.M.I.L.E.) in which to apply it. As such, the Applied Research Stream provides students the opportunity to not only conduct intensive research, but to do so within the context of applying it to help improve the health and performance of those around them.

The Coaching Stream aims to provide students with knowledge, skills, and abilities to succeed in a range of coach and leadership environments in sports. The Coaching Association of Canada offers certification for coaches of entry level, age-group athletes, through to high performance Olympic athletes. The Coaching Stream of the MAK provides the opportunity to acquire advanced knowledge and practical experiences that could aid in obtaining National Coaching Certification Program (NCCP) credentials, including the Chartered Professional Coach designation, along with their MAK degree. Coaches will be immersed in a learning environment with other coaches and coaching experts and will be engaged in the practice of coaching with opportunities for reflection and further analysis informed by research, all culminating in a comprehensive capping project that integrates their learning. This stream features blended delivery with in-person and hybrid sessions. Coaches can complete full-time requirements in two years or pursue part-time studies over several years.

The Exercise Stream provides students with knowledge, skills, and abilities to succeed in professional exercise practice environments from general health to performance in sport, occupation, and clinical environments across the lifespan. This program builds on the strengths of the Acadia Kinesiology practical community engaged, learning opportunities and includes areas of practice in high performance sport, musculo-skeletal injury prevention and maintenance, chronic disease and aging programs, and children & youth. This program meets theoretical and practical competencies required for attaining advanced professional certifications with organizations such as the Canadian Society of Exercise Physiology (CSEP), or for registration with a College of Kinesiology. This course-based master's builds on the practical experiences in exercise science and training now provided through the Bachelor of Kinesiology (BKIN) degree.

**Program Requirements**
KINE 5013, KINE 5023, KINE 5033 and stream requirements.

- Applied Research Stream: KINE 5313, KINE 5960, 3hrs university research methods (approved by your supervisor).
- Coaching Professional Stream: KINE 5203, KINE 5223, KINE 5243, KINE 5263, 9hrs university electives (approved by your supervisor).
- Exercise Professional Stream: KINE 5103, KINE 5113, KINE 5123, KINE 5143/5140L, KINE 5153, 6hrs university electives (approved by your supervisor).

## Mathematics and Statistics (MSc)

Department of Mathematics and Statistics; Huggins Science Hall, Room 130
Ph: (902) 585-1382; Fax: (902) 585-1074; mathstats@acadiau.ca

**Admission Requirements**
In addition to those stated in the Admissions section of this calendar, all applicants must submit a brief statement of possible research interests and indicate whether they will be seeking an internship.

**Program Requirements**
12h Mathematics and Statistics courses at the 5000-level and Math 5960, as well as enrolment in Math 5810 each term the student is in residence. Students will follow the thesis requirements as described on the Graduate Studies website.

Until all course requirements are satisfied, graduate students in residence will normally take at least two courses suitable for credit in the program in each term. The normal length of time for completion of the program, including the internship, is two academic years.

The program is aimed, in the first instance, at students who plan careers in applied mathematics or statistics. A Co-op work term is seen as a core feature of the program. By spending time in a supervised workplace setting in which mathematical or statistical research forms an essential part of the working routine, students acquire hands-on experience in applied research in the mathematical or statistical sciences.

**Co-operative Education**
A Co-operative Education Option is available to students who are enrolled in the Master of Science in Mathematics & Statistics program. Co-op offers a minimum of four months and a maximum of eight months of discipline-related work experience. Work terms are non-credit courses, graded as pass or fail, and are over and above the required courses for the degree. They are not considered as replacement courses for the degree. Students enrol in Co-op in September of their first year of study. Two terms of study must be completed prior to the student's first Co-op term. Co-op terms must be completed prior to the student's final full term of study.

## Political Science (MA)

Department of Politics; Beveridge Arts Centre, room 219
Ph: 902.585.1239; Fax: 902.585.1070

**Admission Requirements**
The current effective threshold for admission is a Bachelor of Arts with Honours Degree in Political Science, with a minimum GPA of 3.50 in the last two years. We occasionally admit candidates with a major in Political Science or degrees in other disciplines or with lower GPAs, however, we may require coursework in Political Science prior to admission to the MA depending upon the actual qualifications of individual candidates (and their equivalence to Political Science). Your application must include: two (2) letters of reference, curriculum vitae, undergraduate university transcript, a sample of your recent written academic work, general statement of your proposed thesis research that includes information on your proposed research topic, and the application fee as required by Acadia University.

International students must also submit an English language test score. Please check the Admission section at the front of calendar for the minimum score requirements.

**Program Requirements**
POLS 5143, and five additional courses.
Of these five, students must take at least one course in three of the four subfields.

- Canadian Politics: POLS 5103, POLS 5303, POLS 5403, POLS 5603, POLS 5803.
- Comparative Politics: POLS 5193, POLS 5293, POLS 5693, POLS 5893.
- International Relations: POLS 5183, POLS 5283, POLS 5383, POLS 5483*, POLS 5783*, POLS 5883*, POLS 5983* and IDST 5186.
- Political Theory: POLS 5043, POLS 5243, POLS 5343, POLS 5743.

Students may take one MA-level directed readings course from a faculty member in any department or one MA-level course from a cognate department, subject to the approval of that faculty member and the graduate coordinator.

Thesis: POLS 5960. The thesis may not exceed 40,000 words in length except with the permission of the Department. The Department encourages students to complete and successfully defend the thesis within 4 months after the completion of course work.

* POLS 5483, POLS 5783 and POLS 5883 can be counted as International Relations or Political Theory, but not both. In some years, POLS 5983 may be counted as Comparative Politics.

## Psychology (MSc)

Department of Psychology; Horton Hall, Room 326
Ph: (902) 585-1301; Fax: (902) 585-1078; http://psychology.acadiau.ca/

**Admission Procedures**
To apply, you must have either an Honours degree in psychology or equivalent (i.e., an undergraduate degree majoring in psychology along with sufficient and relevant research experience). If you are interested in counselling, but do not hold those qualifications, you may be interested in either our Master of Education in Counselling, or in completing an undergraduate degree in Psychology. Found at: http://www2.acadiau.ca/prg_gr_psyc.html

Over the past five years, we have averaged 40 applications for 4 to 5 spaces per year. Of admitted students, the average GPA was 3.60 and generally GRE percentile scores (General Test) were above the 40$^{th}$ percentile. Previous research activity, work experience, and clinically-related public service are considered. Short-listed candidates shall receive a telephone or in-person interview by two or more faculty members in order to augment the selection process. Admission is restricted to those holding a bachelor's degree with Honours in Psychology (with a thesis) or equivalent (please see chart and description below).

**Admission Requirements**

| | Under-graduate Transcripts | Letters of Reference (3) | *Written proof of coursework in specified domains | **Statement of research and statement of applied interests | ***Evidence of independent research experience and core course research (research design and research statistics) |
|---|---|---|---|---|---|
| All applicants | x | x | | x | |
| International Applicants | x | x | | x | |
| ***Applicants without a four-year Honours degree in Psychology | x | x | x | x | x |

*Biological bases of behaviour (neuropsychology, biological psychology, physiological psychology) Cognitive bases of behaviour (learning, memory, cognition), Social bases of behaviour (social psychology, cultural, ethnic and group processes), Individual differences (abnormal psychology, developmental psychopathology)

**The research statement must outline how you are prepared to complete a master's thesis. Please describe your research experience and completed coursework that is related to research such as research design and statistics. The statement must also include general areas of research interest and potential Acadia supervisors in those areas. The document has a 1-to-3-page limit. The statement of applied interests must describe your academic and clinical interests and how you intend to pursue them in the clinical psychology graduate program at Acadia University. Please state what you are interested in studying and why Acadia University is a good place for you. Please also include your career objectives, preparation, suitability for the program, and any other relevant information. If you've applied for a scholarship opportunity (ie. SSHRC/NSERC/CIHR), please include this info in your statement. Applicants are invited to describe any special circumstances that may affect their application and academic record such as the need for paid employment during undergraduate years, parental and medical leave(s), and possible socio-cultural disadvantages. If included, this information should be added with a subheading "Special Circumstances". This last component is completely voluntary and not required; however, the Department of Psychology is committed to Equity/ Diversity/ Inclusiveness principles and actions and is willing to consider applicants' special circumstances as part of the admission selection process. The document has a 1-to-3-page limit.

***The onus is on the applicant without a four-year Honours degree in Psychology (thesis based) to demonstrate how all requirements have been met. At least one referee must comment on how you are prepared to complete a master's thesis.

**Application Deadline**
The application deadline is December 15, 2025, for entrance in September 2026.

**Program Requirements**
Candidates must complete the following courses: PSYC 5013, PSYC 5023, PSYC 5033, PSYC 5043, PSYC 5053, PSYC 5063, PSYC 5113, PSYC 5123, PSYC 5960, and PSYC 6073/PSYC 6083. Substitution of another graduate course for one of these required courses must have approval of the Department. Students may take additional electives.

Students must obtain a minimum grade of B- in all graduate courses. Students obtaining a final grade below B- in any course must withdraw from the program or be dismissed, unless special permission to continue in the program is granted by the Department.

This is normally a two-year (24 month) M.Sc. program in clinical psychology. Courses beginning with a 5 are usually taken in the first year and those beginning with a 6 are usually taken in the second year. Enrolment in graduate courses is limited to students who have been accepted into the psychology graduate program. An empirical thesis is also required of all candidates. A successful formal defence of the thesis proposal is strongly recommended by the beginning of second year.

Students in their third or subsequent years of the program who have not had a thesis proposal accepted by the Department will be reviewed by the Department Head and Clinical Program Coordinator and may receive a failing grade in PSYC 5960.

Students who take a leave of absence following the end of PSYC. 5023, PSYC. 5033, PSYC. 5053 and/or PSYC. 5063, must retake the course(s) in whole or in part, at the discretion of the Department.

**Typical Course of Study**
Year 1 – Term 1
PSYC 5013 Seminar
PSYC 5023 Adult and Child Assessment: Foundations
PSYC 5043 Ethical Decision Making
PSYC 5053 Psychotherapy 1: Foundations
PSYC 5113 Research Design and Statistics 1

Year 1 – Term 2
PSYC 5013 Seminar
PSYC 5033 Adult and Child Assessment: Advanced Skills
PSYC 5063 Psychotherapy 2: Intervention Skills
PSYC 5123 Research Design and Statistics 2

Year 2 – Term 1 and 2
PSYC 6073/PSYC 6083 Clinical Practicum and Psychopathology 1 & 2
PSYC 5960 Thesis

Enrolment in PSYC 6073/PSYC 6083 is by permission of the Department, based on the review of student progress evaluated as satisfactory, that includes passing all first-year graduate courses with a minimum grade of B-. Continued enrolment in the program is contingent upon maintenance of satisfactory performance in (a) course work, (b) thesis work, (c) practicum skills development, and (d) adherence to professional ethical standards (*A Canadian code of ethics for psychologists*, 2017). Students will be notified of problems in any of these areas through reviews of student progress, carried out at least twice, once in the Fall and once in the Spring of the first year of the program. The process for review is as follows: (a) Students receive preliminary feedback from their research supervisors and provide their own comments when they meet to fill out the review form. (b) Student progress is reviewed at a meeting of the clinical program committee attended by students' supervisors. (c) The clinical program director will write to each student on behalf of the committee, indicating the committee's assessment of the student's progress. If progress is deemed to be unsatisfactory, the letter will convey what remedial actions or steps are required in order to address the committee's concerns. Failure to resolve problems satisfactorily will result in termination from the program.

**Research Facilities**
The Department of Psychology is housed in Horton Hall and has ample space to support student research. Each faculty member involved in supervision has assigned space and facilities.

## Social and Political Thought (MA)

Interim Program Coordinator: Dr. Jesse Carlson
Beveridge Arts Centre, Room 421
Ph: 902.585.1255; http://spt.acadiau.ca

**Admission Requirements**
We are interested in admitting a diversity of students with a common motivation and ability to pursue interdisciplinary, graduate-level theoretical work on society and/or politics. We encourage applications from interested students graduating from relevant disciplinary (e.g., Philosophy, Political Science, Sociology, English) and interdisciplinary (e.g., Communication and Cultural Studies, Environmental Studies, Women and Gender Studies) programs, as well as from those with relevant work or life experience beyond their undergraduate degree. All applications will be considered on an individual basis.

Your application must include at least two letters of reference, curriculum vitae, undergraduate university transcript, sample of your recent written work, statement of research interest, and the application fee as required by Acadia University.

**Program Requirements**
Students admitted to the MA in Social and Political Thought are required to take 18h of courses, normally during the first eight months after their admission (fall and winter term). Students take six courses (for full-time students, normally three in each of the Fall and Winter terms). There are four required courses: SOPT 5113, PHIL 5113, POLS5043 and SOCI 5113. The remaining two courses (6h) can be any two 5000-level courses taught by members of the SOPT Program (subject to approval by the SOPT Graduate Coordinator).

The Social and Political Thought program is organized around the SOPT 5113 Colloquium. Over the duration of the program, students will be introduced to diverse and interdisciplinary voices, topics and approaches from inside and outside the SOPT faculty. Students also have the opportunity to develop their skills in the SOPT graduate student journal and the biennial graduate student conference.

Students in the program also write a master's thesis (SOPT 5960), under the guidance of a thesis supervisor and second reader - two program faculty members from different departments. Students are expected to complete the thesis within one year of completing their course work. Accordingly, students are advised to choose a thesis supervisor and second reader early.

## Sociology (MA)

Department of Sociology; Beveridge Arts Centre, Room 307
Ph: (902) 585-1493; sociology@acadiau.ca

**Admission Requirements**
In addition to the general admission requirements, applicants must have an Honours degree in sociology and a grade-point average of at least 3.55 in the last two years of their program. Applicants are required to have completed 6h coursework in each of social theory and research methods. The application must include: a statement of research interests, a sample of written work (e.g., chapter from an Honours thesis or excerpt from a major research paper), a curriculum vitae, all undergraduate transcripts, and two letters of reference. The deadline is **February 1** for applicants who wish to be considered for university funding. Other applications may be considered after this date, if space permits. Students will identify a supervisor, in consultation with the department, once they start the program.

Students without an Honours degree but who have completed a four-year undergraduate degree in sociology may be considered if they demonstrate equivalent academic and/or work experience. These students must submit a full-length major research paper for their writing sample.

**Program Requirements**
This is a twelve-month MA program that requires both course work and the completion of a thesis. During this time, students must complete four courses (including research methods, theory, and relevant special topics), participate in a professional development seminar, contribute to departmental events and activities, and pursue their thesis research.

## Graduate Level Courses

Graduate courses are normally restricted to students enrolled in graduate programs.

### Biology

**BIOL 5013 Research Methods in Biology 1**
An exploration of the history and philosophy of science, expectations of students and supervisors, and practical approaches to biological research, publishing, and critical review. Students complete a research proposal, research grant application, and/or manuscript from current or past research. Students meet weekly to explore topics, and review and critique the work of others. Proposals and applications are presented and defended. *Prerequisite(s): None.*

**BIOL 5023 Research Methods in Biology 2**
An exploration of current and historical topics in biology through seminar discussions, original research projects, critical reviews, data exploration (visual, mathematical, and statistical), software implementation, presentations, workshops, and/or field trips.

**BIOL 5033/BIOL 5043/BIOL 5053 Advanced Topic in Graduate Biology 3/4/5**
Students will choose a course from one of the following subheadings in consultation with their supervisor/supervisory committee: Terrestrial Ecology; Molecular Biology and Genetics; Plant Biology; Animal Biology; Conservation and Population Biology; Aquatic Ecology; Microbiology and Parasitology.

**BIOL 5253 Data Science in Ecology**
The application of statistical modeling of biological processes. Best practices on data curation, creating plots and tables, and production of reproducible research using R software. Analyses include understanding, applying and interpreting biological processes using observational and environmental data using generalized linear models (e.g., regression, ANOVA, mixed models). Model selection, fit, validation and visualization are emphasized.

**BIOL 5960 Graduate Thesis**

### Chemistry

**CHEM 5010 Research Seminars**
Graduate students are required to attend all departmental seminars. This is a non-credit course required for all full-time graduate students in Chemistry.

**CHEM 5013 Qualifying Exam**
Oral presentation on a research topic that relates to the thesis sub-discipline. The oral presentation will be followed by an oral examination on the student's general chemistry knowledge. Required course for the MSc degree in Chemistry that should be attempted during the first term of the program.

**CHEM 5023 Research Proposal**
Oral defence of a written research proposal (using the format of an NSERC Discovery Grant) that should be attempted during the second term of the MSc program. Required course for the MSc degree in Chemistry.

**CHEM 5106 Advanced Physical Chemistry 1**
Advanced topics in chemical kinetics and reaction dynamics.

**CHEM 5113 Advanced Physical Chemistry 2**
Advanced topics in electrochemistry and surface science.

**CHEM 5303 Advanced Inorganic Chemistry 1**
Specific topics of current interest are discussed in some detail.

**CHEM 5313 Advanced Inorganic Chemistry 2**
Recent developments in the area are studied from the current literature.

**CHEM 5403 Advanced Coordination and Organometallic Chemistry 1**
Specific topics of current interest are discussed in some detail.

**CHEM 5413 Advanced Coordination and Organometallic Chemistry 2**
Recent developments in the area are studied from the current literature.

**CHEM 5503 Advanced Topics in Organic Chemistry 1**
Special topics in organic synthesis. Recent literature is discussed.

**CHEM 5513 Advanced Topics in Organic Chemistry 2**
Recent developments in the area are studied from the current literature.

**CHEM 5703 Advanced Topics in Biochemistry 1**
Enzymology of hydrolases.

**CHEM 5713 Advanced Topics in Biochemistry 2**
Regulatory enzymes.

**CHEM 5803 Advanced Analytical Chemistry 1**
Modern methods of applying chemometrics, sampling, mass spectrometry and electrochemistry.

**CHEM 5813 Advanced Analytical Chemistry 2**
An overview of state-of-the-art analytical methods and applications.

**CHEM 5960 Thesis**

## Co-operative Education

**COOP 5910/COOP 5920 Co-operative Education 1/2**
This is the first (second) four-month term in which the student is employed in a discipline related position. Students will engage in degree-relevant, hands-on learning for a minimum of 420 hours per term offering opportunities for application of classroom-based theory, reflection, collaboration with subject matter experts, as well as feedback on performance and a formal report or presentation. Provides in depth exposure to varied professional environments, learning of specialized knowledge/techniques/equipment, and first-hand insight into potential career paths. *Prerequisite(s): Permission from the master's supervisor and Graduate Coordinator.*

## Community Development

**CODE 5033 Community Development Seminar**
The seminar comprises an investigation of the relationships among the concepts, issues and problems associated with community development. It is a theory-based approach to the process of identifying and critically examining the conditions which influence community development in contemporary society. Seminars consist of discussions relative to student presentations and prescribed readings.

**CODE 5073 Research Methods**
This course examines the application of research techniques and methodologies to community development. The topics include discussion of current community development and evaluation, methodologies and analyses and research design.

**CODE 5513 Applied Community Development**
Review and analysis of selected topics in community development. Specific topics, format and content of course are negotiated on an individual or small group basis with members of the faculty.

**CODE 5553 Community Development Theory**
Review and analysis of selected topics in community development theory. Specific topics, format and content of course are negotiated on an individual or small group basis with members of the faculty.

**CODE 5056 Community Development Practicum**
This course is designed to integrate practical experience with applied research in a community development or allied field setting, or an in-depth exposure to post-secondary teaching in community development. The nature of the placement is determined by the student's interest in consultation with, and with the approval of, the graduate student's program supervisor.

**CODE 5960 Graduate Thesis**
Every candidate must prepare an approved thesis based on original work under the direction of a supervisor appointed by the department.

## Computer Science

**COMP 5013 Topics in Theoretical Computer Science**
These courses consist of intensive examination of selected specific advanced topics in theoretical computer science. Since the specific topic or research problem that receives special treatment will differ from year-to-year, students are advised to consult with the School prior to registration.

**COMP 5113 Applications in Computer Science**
These courses consist of intensive examination of selected specific advanced topics in applications of computer science. Since the specific topic or research problem that receives special treatment will differ from year-to-year, students are advised to consult with the School prior to registration.

**COMP 5143 Software Foundations**
This course covers key mathematical concepts for reliable software development, including logic, computer-assisted theorem proving, and the Coq proof assistant, all of which are essential tools for building robust software. Students will also explore functional programming, operational semantics, Hoare logic, and static type systems. This course emphasizes formal verification techniques to help students ensure the correctness of their software designs.

**COMP 5153 AI in Computer Security**
This course explores how AI enhances security systems and protects them. Topics include machine learning algorithms, anomaly detection, and AI-driven automation in tasks like IDS, malware analysis. Students will gain practical insights for both offensive and defensive cybersecurity applications preparing them for the challenge of today's security landscape. Protection strategies on AI model security also will be discussed.

**COMP 5163 Internet of Things Programming**
This course will investigate the Internet of Things (IoT) as a network of objects or "things" embedded with electronics, software and sensors connected on networks enabling them to collect or exchange information. Students will also learn to program and enable devices to collect or exchange information.

**COMP 5173 Neural Networks**
This course introduces the history and algorithms in neural networks, covering topics like perceptron, gradient descent learning algorithm, backpropagation, linear-separability, multi-layer perceptron, Hopefield network, self-organizing maps, restricted Boltzmann machine, self-supervised learning. Students will delve into advanced topics on deep neural network architectures like Convolutional Neural Network (CNN), Recurrent Neural Network (RNN), Long Sort-Term Memory (LSTM), Generative Adversarial Network (GAN).

**COMP 5183 Machine Learning with Real-World Data**
This course will focus on working with limited/noisy data to build accurate models useable in real-world situations with data mimicking or from a real-world source. Deep and shallow learning approaches will be explored, with proper data analysis and preparation techniques. Time-series data analysis will be performed. Students will learn to merge these predictive models into a simulated business system.

**COMP 5213 Systems in Computer Science**
These courses consist of intensive examination of selected specific advanced topics in systems in computer science. Since the specific topic or research problem that receives special treatment will differ from year-to-year, students are advised to consult with the School prior to registration.

**COMP 5403 Advanced Algorithm Analysis**
This advanced algorithm analysis course covers a selection of the following topics: review of asymptotic notion, The FFT (polynomials over final fields and/or complex numbers), lower bound analysis, union-find algorithms and their analysis, Strassen's algorithm, Number theoretic algorithm, and NP completeness.

**COMP 5413 Advanced Formal Languages and Computing Complexity**
This course will cover the following topics: The Unsolvability of halting problems, decidable and semi-decidable languages, unrestricted grammars, the Chomsky hierarchy and beyond, computable functions, introduction to the analysis of complexity, time and space complexity classes.

**COMP 5423 Cryptography and Network Security**
This course covers the core principles or cryptography and network security. Students will explore classical encryption techniques such as substitution, transposition, and product ciphers, and moder algorithms like RSA. For network security, the course examines secure communication protocols, firewalls, IDS, and defenses against network attacks. Students will be able to design secure cryptographic systems and protect computer networks.

**COMP 5433 Evolutionary Computation**
This course focuses on population-based intelligence models to simulate biological evolution for stochastic search. Necessary algorithm design considerations including representations, cost functions, and credit assignment mechanisms. The course will primarily focus on three main paradigms: Genetic Algorithms, Genetic Programming. Special attention will be given to co-evolution, multi-objective optimization and automatic program decomposition.

**COMP 5443 Image Processing**
This course introduces the fundamental concepts of digital image processing from a practical standpoint, while providing essential theoretical background. Key topics will include image acquisition, processing techniques, practical application, and basic image analysis algorithms. The course is designed to make digital image processing accessible to computer scientists and engineers with little prior experience in the subject.

**COMP 5453 Knowledge Representation and Reasoning**
This course provides and overview on the core of Symbolic AI, covering key topics such as Propositional and First-Order Logic, Non-Monotonic Logics, and techniques for Reasoning under Uncertainty: Probabilistic and possibilistic logics. Students will explore advanced methods like Bayesian Networks and their applications in decision-making under uncertainty, as well as planning techniques. The course also covers Case-Based Reasoning for problem solving.

**COMP 5463 Principles of Programming**
This course will cover topics including the History of Programming languages, programming paradigms, language design, syntax, semantics and its specifications. This course is intended to provide the student with a firm grounding in a range of concepts and constructs in the theory and practice of programming languages.

**COMP 5503 Simulation and Modelling**
This course provides a comprehensive introduction to digital twins, focusing on the technologies, tools, and techniques (Python, MATLAB) for creating representation models for AR/VR interfaces. Topics include IoT, data science, and modelling methods, with a

project-based approach through lectures and labs. Students will work in teams on practical, challenging project, enhancing problem-solving skills.

**COMP 5513 Introduction to Intelligent Systems**
This course constructs prototype intelligent systems using state-of-the-art Artificial Intelligence (AI) techniques and explores rule-based and statistical approaches to AI. Students will create computer programs that use Natural Language Processing (NLP) to respond to commands written in English and learn how to design Machine Learning (ML) systems that can solve difficult problems by learning from examples.

**COMP 5543 Data Mining**
This course will introduce basic data mining techniques such as preprocessing (e.g., aggregation, sampling and dimensionality reduction), pattern mining, classification (e.g., decision trees, rules), prediction modelling (e.g., Bayesian networks, nearest neighbours), cluster analysis, and outlier detection before covering more advanced data mining techniques such as advanced clustering (e.g., graph-based and fuzzy clustering), infrequent patterns, machine learning and avoiding false discoveries.

**COMP 5563 Computer Vision**
This course introduces the core concepts of computer vision covering the essential methodologies and techniques. Students will study the theory behind essential tasks such as semantic segmentation, feature extraction, image classification, and object detection. By course completion, students will be equipped to apply fundamental computer vision principles and tools to solve practical problems in both scientific and commercial contexts.

**COMP 5573 High Performance and Parallel Computing**
This course will examine contemporary tools, methodologies, and strategies fundamental to modern parallel problem-solving. The focus will be on software resources, but will also examine associated hardware architectures employed to achieve parallelism in computationally intensive tasks, with students solving real-world problems on existing parallel machines. Students will read recent research publications and participate in a significant parallel project implementation.

**COMP 5583 Multi-Agent Systems**
This course provides an overview of state-of-the-art agent and multi-agent technologies and their applications, with special emphasis on the core issues involved in the research of agent-based systems. This course covers agent architectures, agents' behaviours, coordination and inter-agent communication. Pervasive, ubiquitous and cloud computing and how agent systems can be applied in these environments will be covered.

**COMP 5913 Readings in Computer Science**
The student is assigned to a faculty member for regular meetings to discuss readings in a selected area. Papers and research projects are expected. *Prerequisite(s): Permission from the Graduate Coordinator.*

**COMP 5923 Research in Computer Science**
This course provides an introduction to research methods in computer science. *Corequisite(s): COMP 5950 or COMP 5960.*

**COMP 5950 Project**
MSc project for students enrolled in the project option.

**COMP 5960 Thesis**

## Earth and Environmental Science

**ENVS 5013 Research Methods in Environmental Science**
Exploration of the history and philosophy of science, expectations of students and supervisors, practical approaches to research in Environmental Science, publishing, and critical review. Students complete a research proposal, research grant application, and/or manuscript from current or past research. Students meet weekly to explore topics, and review and critique the work of others. Proposals and applications are presented and defended. *Antirequisite(s): Credit can be obtained for only one of ENVS 5013 or BIOL 5013.*

**ENVS 5033/ENVS 5043/ENVS 5053 Advanced Topic in Environmental Science**
Students will choose a course from one of the following subheadings in consultation with their supervisor/supervisory committee: Environmental Contamination; Lacustrine Environmental Science; Coastal Environmental Science; Environmental Science Policy; Environmental Change; Environmental Monitoring, Assessment, Remediation and Restoration; Ecosystems Health; Applied Biodiversity; Legal Issues; Environmental Impact Assessment; Borders, Scale and Environment.

**ENVS 5900 Environmental Science Graduate Seminar 1**
Review of current research topics and problems in Environmental Science. Instruction on presenting seminars, writing papers and preparing abstracts may be included. Weekly seminars will be held throughout the year. It may be co-taught with GEOL 5900 and GEOM 5900.

**ENVS 5903 Environmental Science Graduate Seminar 2**
Review of current research topics and problems in Environmental Science. Instruction on presenting seminars, writing papers and preparing abstracts may be included. Weekly seminars will be held throughout the year. It may be co-taught with GEOL 5903 and GEOM 5903.

**ENVS 5960 Thesis**

## Education

**EDUC 5003 Theories of Human Development and Learning**
This course provides a framework for thinking about human development and learning. Using a multi-theoretical perspective, it explores the physical, cognitive, behavioural, and emotional growth of individuals spanning the entire developmental trajectory. It also examines major concepts and theories of learning that inform our understanding of how knowledge and worldview are influenced through the interactions of individuals and their environments.

**EDUC 50C3 School Counselling Programs**
This course examines the roles and functions of school counsellors within a Canadian context, in the planning, development, implementation, and evaluation of programs aligned with various models of school counselling. Relevant ethical, legal, and diversity issues are considered in the context of provision of counselling, consultation, and coordinating services in the school setting. *Prerequisite(s): EDUC 5033 and EDUC 5133.*

**EDUC 50D3 Ethics in Counselling Practice**
This course provides a critical analysis of professional, ethical, legal, and diversity issues related to practice, teaching, supervision, and research in counselling. Students are encouraged to explore personal beliefs and values, review ethics and legal documents, consider procedures for processing ethical inquiries and complaints, and engage in application of ethical decision-making processes.

**EDUC 50E3 Counselling Across the Lifespan**
This course examines the application of theories of growth, learning, and identity formation in working with clients across the lifespan. Students will explore change strategies and consultative processes alongside ethical, equity, legal, and diversity considerations relevant to life stages. Students develop an understanding of significant life transitions and changes, as well as the role of counselling in supporting client well-being.

**EDUC 50F3 Counselling Pre-Practicum**
The 40-hour pre-practicum lab experience moves students toward the practice of integrating their beginning skills and strategies into an intentional counselling process in a simulated environment. While under supervision, students are encouraged to enhance self-awareness, further develop counselling competencies, analyse their emerging counselling theoretical orientation, and attune to ethical, legal, and culturally responsive practices. *Prerequisite or concurrent: EDUC 5033 and EDUC 5133.*

**EDUC 50G3 Research Literacy**
This course focuses on major research paradigms most often used by professional educators. Emphasis will be placed on the ability to read and interpret basic research language and to recognize common research methodologies employed in qualitative, quantitative and mixed methods approaches.

**EDUC 50H3 Disability Studies in Education**
The course introduces students to theories of disability and considers how historic and contemporary disability definitions shape societal responses to disabled people. Disability Studies offers a critical framework for understanding disability as a social/political/cultural phenomenon. It also supports examinations of the normative ideals informing social policies and practices and the significant consequences they produce for disabled people.

**EDUC 50J3 Assessment in Counselling**
In this course students become familiar with general and formal assessment practices and their uses to inform intervention. Students obtain experience in the use of selected standardized assessment instruments frequently employed in the exploration of cognitive, academic, emotional, social, and behavioral functioning. Development of a critical perspective towards ethical and diversity considerations, conceptualization, purposes, and methods of assessment is promoted.

**EDUC 50K3 Clinical Mental Health Counselling**
This course provides a foundation for working with clients who are living with a mental illness. Students will become familiar with the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition, and become conversant with evidence-supported and emerging approaches to prevention and intervention. The intent of the course is to establish a critical, conceptual, and procedural framework across the mental health continuum. *Prerequisite(s): EDUC 5033 and EDUC 5133.*

**EDUC 50L3 Interpersonal Communication and Human Relationships**
This course examines influences of communication style, context, and culture on relationships. It considers verbal and nonverbal, direct and indirect, oral and written communication. Foundations of effective communication and healthy relationships, and processes that enhance or detract from these are considered. In particular, conflict management and resolution approaches such as mediation are explored.

**EDUC 50N3 Counselling Practicum 2 & Group Supervision**
Students participate in a minimum 400-hour supervised counselling internship that is completed on a full-time or part-time basis. During internship, students complete a minimum 200 hours of direct client service, 40 of which must be group work. The practicum is accompanied by a 36-hour group supervision class to support practicum interns' professional growth and development during the practicum period. *Prerequisite(s): EDUC 50F3, EDUC 50D3, EDUC 5033, EDUC 5133, EDUC 5623, EDUC 50P3.*

**EDUC 50P3 Counselling Practicum 1 & Group Supervision**
Students participate in a minimum 100-hour initial supervised counselling practicum that necessitates one day per week availability for a 16-week placement necessary to meet initial practicum requirements. During this practicum, students complete a minimum of 50 hours of direct service with clients, 10 hours of which must be group work. The practicum is accompanied by a 36-hour group supervision class to support practicum students' professional growth and development during the practicum period. *Prerequisite(s): EDUC 50F3, EDUC 50D3, EDUC 5033, EDUC 5133, EDUC 5623.*

**EDUC 5013 History of Education**
This course surveys, from a national as well as a regional perspective, the development of the Canadian school system from its colonial beginnings until the 1990s. The main focus is on the process of curriculum development, the social and cultural contexts in which it occurred, the principles that guided it, and the programs of study that emerged from it.

**EDUC 5023 Philosophy of Education**
This course examines selected aspects of education from a philosophical perspective. Topics included are the relationship between theory and practice; dimensions of educational value; the nature of knowledge and the curriculum; moral education; the teacher and controversial issues; and the school as object and agent of reform.

**EDUC 5033 Counselling Theories**
This course is an introduction to the field of counselling. Philosophical foundations and historical bases of the counselling profession are considered from a critical perspective and current issues and future trends are explored. A significant portion of the course is devoted to the study of the major theories of counselling, both historical and current. *Prerequisite(s): Admission to the counselling program.*

**EDUC 5043 Sociology of Education**
This course is designed to study social problems emanating from such institutions as the family, the community, and political and religious organizations, and to illustrate how these problems impinge upon the schools and the role of the teachers and students.

**EDUC 5053 Topics in Education**
This course is designed to allow students to engage in the study of special topics that are of emerging interest in their core area. While these studies can be undertaken as a group, they may also consist of instructors working directly with individual students.

**EDUC 5063 Inclusive Education and Social Justice**
Foundational concepts embedded within the principles of equity, diversity, inclusion and decolonization are examined using the analytical tools of intersectionality, anti-racist education, ableism, gender, culture, and power.

**EDUC 5066 Counselling Practicum and Group Supervision**
Students participate in a minimum 500-hour supervised counselling practicum that necessitates full-time availability for the 16-week residency necessary to meet practicum requirements. The practicum is accompanied by a 36-hour group supervision class to support practicum interns' professional growth and development during the practicum period. *Preference is given to those who have completed additional counselling courses. Prerequisite(s): EDUC 50F3, EDUC 50D3, EDUC 5033, EDUC 5133, EDUC 50D3, and EDUC 5623. Preference is given to those who have completed additional counselling courses.*

**EDUC 5073 Curriculum and Instruction for Inclusive Education**
This course examines inclusive curriculum and instructional practices that will assist teachers in meeting students' diverse learning needs in educational settings. Students will explore and critique relevant research related to inclusive school communities as well as issues around equitable assessment and instructional practices. *Prerequisite(s) or Corequisite(s): EDUC 5063.*

**EDUC 5106 Seminar and Practicum in Inclusive Education: Special Topics**
This course provides a) a seminar experience in which students read and discuss the literature on inclusive practice, followed by b) a practicum experience offering opportunities for application, reflection, collaboration with peers, and feedback from instructors. The focus of the course varies, concentrating on general inclusive practice, or on inclusive practice in literacy education, or in mathematics education. *Prerequisite(s) or Corequisite(s): EDUC 5063.*

**EDUC 5113 Qualitative Research in Education**
This course examines the traditions and paradigms of interpretive research in educational contexts. Practical, ethical, and theoretical issues are shared through class readings, discussion, and practical application. Opportunities are provided for students to learn and practice a variety of interpretive research methods and strategies. Students actively engage in analyzing data from a variety of interpretive perspectives. The intended outcome of the course is to provide students with skills and understandings in a wide range of interpretive research approaches that can be put into practice in classrooms and other research settings. *Prerequisite(s): EDUC 5513.*

**EDUC 5123 Curriculum Practice for Inclusive Schooling**
This course examines curriculum programs, policies, and practices that are responsive to learner diversity in current educational contexts Curricular and instructional design are examined within frameworks for equity and inclusive schooling.

**EDUC 5133 Counselling Skills**
This course focuses on salient conditions, skills, and processes that have been associated through research with effective counsellor-client relationships and positive client growth. Through participation in lectures, discussions, and structured exercises, including role playing and video-recorded simulated counselling sessions, students integrate multiple skills into the beginnings of a therapeutic

process. *Prerequisite or concurrent: EDUC 5033.*

**EDUC 5143 Educational Explorations**
This course provides an opportunity for the exploration of a variety of educational issues through participation in formats such as institutes, workshops, and mini courses. Evidence of 3h equivalency (120 hours of approved voluntary professional development activities), program relevance, and appropriate academic standards are to be submitted for prior approval to the Graduate Coordinator. Evaluation is on a pass/fail basis. *Available only to students enrolled in an Acadia University MEd program or Director-approved extension programs (example: the NSAC technology program).*

**EDUC 5153 Readings in Education**
This course is designed to permit individual students to pursue interest areas in depth through readings of the pertinent and current literature. Students can expect to be paired with faculty expertise and assigned a core reading list. Through Socratic instructor-led discussion of this literature, students have the opportunity to gain an enhanced understanding of the field. Tangible deliverables for the course will be determined mutually by the student and the supervising instructor. *Prerequisite(s): 9h graduate courses or their equivalent, at the discretion of the Director, School of Education.*

**EDUC 5163 Assistive Technology: Access to Literacy**
Assistive Technology (AT) includes a wide variety of strategies, services, and tools to support all students in the classroom. This course focuses on introducing the participant to current conceptual models and use of assistive technology supporting access to literacy skill development for students with learning differences as well as discussion of integrating AT into the Program Planning Process.

**EDUC 5173 Assistive Technology: Access to Learning and Leisure**
Assistive Technology (AT) includes a wide variety of strategies, services, and tools to support all students in the classroom. Participants will be introduced to current conceptual models and use of assistive technology necessary for some students with disabilities to access classroom learning and leisure activities. Course participants will explore the processes involved in the assessment and planning for appropriate utilization of AT in the school environment.

**EDUC 5183 Acquisition of Language**
This course focuses on how language is acquired, and how different theories of language learning have shaped the way that teachers teach English as an additional language. There will be sociocultural, physiological, and psychological analysis of language acquisition. The course may be taken as part of the TESOL Program.

**EDUC 5193 Linguistics for Teachers**
This course introduces students to the fundamentals of linguistics: the sound system (phonetics and phonology), word system (morphology), syntax, grammar, discourse analysis, and sociolinguistics. Although it may be taken by all interested students, it is primarily designed to be taken with EDUC 5693 and EDUC 5183 of the Acadia TESOL Program for those who wish to teach English as a second or foreign language.

**EDUC 5203 Introduction to Educational Technology**
Technology has great potential to empower the teaching and learning process. This course will address integration strategies that align with learning theory and emergent models such as TPACK. While this course will emphasize the practical implementation of instructional technologies in educational settings, it also seeks to develop a critique of which instructional technologies are pedagogically sound.

**EDUC 5213 Structures and Cultures of Schooling**
This course focuses on principles of traditional and critical organizational theory and their application to educational institutions. Concepts include bureaucracy, professional organizations, innovative organizations, learning organizations, and post-modern conceptions of organizations. Attention is given to principles of organizational cultures and politics and their application to schools, as well as their relevance to leadership and school development.

**EDUC 5233 Counselling Families**
This is an introductory course in counselling families and systemic approaches. In addition to an examination of the philosophical and historical underpinnings of family therapy, the course examines systemic theories and family therapy research. Students will have opportunities to consider the practical application of those theories to working with parents/guardians, couples, and families in school and agency settings. *Prerequisite(s): EDUC 5033.*

**EDUC 5243 Supervision**
This course is designed to study the principles, methods and techniques used in the supervision of instruction in the public school system, with emphasis on the evaluation of the teaching-learning process. This course may require observation of practice-teachers in the schools and discussion observations with the practice-teachers in a supervisory capacity.

**EDUC 5273 Education and the Law**
This course examines statute and case law relating to public education in Canada. The objective is to clarify general legal principles through an investigation of such topics as authority in education, teacher rights, student rights and teacher/school board liability. A major focus is the educational implications of the Charter of Rights and Freedoms.

**EDUC 5283 Creative Integration of Curriculum in Elementary School**
This elective course surveys a range of approaches through which prescribed outcomes in elementary language arts, mathematics,

science, and social studies curriculum can be integrated in classroom practice. While theories of curriculum integration form the foundation for the course, the emphasis is on the notion of creativity as a means to situate learning in meaningful contexts. Cross-listed with EDUC 4763.

**EDUC 5303 Principles of Assessment in Education**
This course entails an examination of both summative and formative assessment in relation to various educational purposes. Professional issues such as the role of the teacher and student in assessment, bias, morality, and ethics are explored. Existing assessment practices and processes used in program planning and curriculum implementation will be critically analyzed.

**EDUC 5313 Assessment for Learning: Standardized Assessment**
This course introduces students to the properties of standardized assessment. This course will outline different levels and qualifications for standardized testing, ethical considerations, and the uses of assessment to inform educational supports. This course will provide students with practicum experience in the administration of Level A and B tests as well as the interpretation, analysis, and sharing of assessment results. Existing assessment practices and processes used in program planning and curriculum implementation will be critically analyzed from an inclusive education lens.

**EDUC 5343 Counselling for Social Justice and Culturally Responsive Practices**
Students are supported in exploring theories of social justice, equity, and cultural responsiveness in counselling. Students will be provided with opportunities for self-reflection on their social positioning and biases and how this impacts their approach to counselling. A priority of this course is to bring forward first voice of groups marginalized by traditional counselling practices and raise student's consciousness.

**EDUC 5353 Crisis and Trauma Counselling**
This course is aimed at providing students with a theoretical and practical understanding of trauma and basic accepted practices of supporting individuals from a trauma-informed approach. This course also takes up the research, theory, and practical interventions in supporting individuals experiencing situational or transitional crises. Topics of this course are approached through an ecological perspective and crisis and trauma are explored through consideration of interactions to environmental, developmental, and cultural factors.

**EDUC 5513 Research Design in Education**
This course is designed to provide an introduction to multiple paradigms and approaches to research design. Emphasis is placed on participants reading, understanding, and critically engaging with research literature and developing a grounding in ethical best-practices for research with human subjects. Moreover, a focus of the course is on applying the methodologies used to design, analyse and interpret educational research.

**EDUC 5523 Quantitative Methods in Educational Research**
This course provides a background for the educator who must use statistics in research, evaluation and planning. The fundamental statistical tools are reviewed and particular statistical methods applicable to educational problems are introduced in this course. While the student uses computers to calculate and to manage the data, an emphasis is placed upon the interpretation of statistical results. The following topics are part of this course: linear regression and correlation, multiple regression analysis, analysis of variance, and non-parametric statistics.

**EDUC 5543 Theories of Career Development**
This course examines theories of vocational development and choice, meanings attached to work and leisure, and uses of occupational and educational information. Approaches for assisting individuals in exploration and decision-making related to work in the context of lifespan issues are actively explored. Consideration is given to issues related to equity and diversity as they relate to work-life. *Prerequisite(s): EDUC 50J3.*

**EDUC 5553 Topics in Counselling**
Different sections of this course are offered each year to address specialized areas important to counsellors such as addictions, play therapy, sexual diversity, spirituality, trauma-informed practice and counselling in Indigenous communities. Each of these courses covers key concepts, frameworks for practice, current research, ethical principles, and the application of diversity-sensitive practices.

**EDUC 5563 Career Development Process and Practice**
Students will acquire specific competencies to offer career development or career counselling to individuals or groups. Topics covered: current trends in holistic career development, examination of pertinent terminology, navigating identity, work across the life span, examining constraints on work choices and life satisfaction, use of formal and informal assessment tools and application of career development knowledge to a volunteer case study.

**EDUC 5593 Feminist Counselling**
Feminist counselling provides an opportunity for students to examine concerns that women may have as a result of living in a male-dominated society. This course integrates feminist principles within contemporary theoretical positions. It explores gender stereotypes, sex role socialization, institutionalized sexism, lifespan issues for women, and provides a feminist vision of counselling and psychotherapy. *Prerequisite(s): EDUC 5033.*

**EDUC 5603 Topics in Educational Technology**
This course is designed to familiarize the student with current and emergent technologies that have potential to empower teaching and learning. With constructivist pedagogy as a core foundation, students will evaluate tools and approaches from a critical stance. In

remaining current, topics will vary but may include such things as multimedia tools, e-learning strategies, digital literacy, assistive technologies and the implications of IT research.

**EDUC 5623 Group Counselling: Theory and Practice**
This course provides a conceptual and experiential introduction to group counselling theory, models, skills, strategies, and techniques. It affords opportunity for the acquisition and application of self-awareness, knowledge, and competencies related to group counselling and leadership. Students explore group development, process, and dynamics; therapeutic factors; facilitator and member roles; ethical and legal considerations; and culturally responsive group practices. *Prerequisite(s): EDUC 5033 and EDUC 5133.*

**EDUC 5633 Curriculum Foundations**
This course is designed to examine the nature of curriculum and the basic principles of the curriculum making process with due consideration of a range of historical perspectives. Curriculum as a field and as a practice is examined through foundational theoretical models. Special attention is given to the role of educators, administrators and others who influence the development of curriculum.

**EDUC 5643 Major Theoretical Developments in Curriculum Studies**
This course focuses on current issues in the field of curriculum studies. The course integrates contemporary work in the social sciences and the humanities in the analysis of curriculum. Students are invited to critically examine the impact of theory that influences curriculum development in schools. *Prerequisite(s) or Corequisite(s): EDUC 5633 or permission of the instructor.*

**EDUC 5653 Literacy Development**
This course is designed to examine the theoretical constructs of literacy development. The course provides an opportunity to investigate how language, both spoken and written, is learned. Instructional implications of theory and research provide a framework for examining topics such as developmental learning, holistic teaching, language across the curriculum, and evaluation.

**EDUC 5663 Curriculum Practice**
This course provides an opportunity for students to apply the theoretical implications from previous courses (i.e., 5633 and 5643) to the examination and development of curricula. Students are required to design and develop a curricular project. *Prerequisite(s): EDUC 5633, EDUC 5643 or permission of the instructor.*

**EDUC 5673 Current Research and Theory in Curriculum: Specialty Area**
This course is designed to examine recent research and theoretical developments in a specific subject matter area (sections will be assigned to specific specialty) and how they affect the design of instruction and curriculum. Such developments are examined in terms of their impact on current teaching and curricular initiatives. If using the course to meet concentration requirements, the focus of the study must be in the concentration area. *Prerequisite(s): EDUC 5633, EDUC 5643 or permission of the instructor.*

**EDUC 5693 Teaching English as a Second Language**
This course introduces students to some of the major current teaching methods in English as a Second or Foreign Language. It is designed to help prepare teachers for teaching English to ESL speakers either in Canada or abroad. This course may be taken as part of the TESOL Program.

**EDUC 5713 Project in Education**
The focus of the project in this course is on practical applications grounded in scholarly work. The project should be a substantial piece of work with a written component. Projects might include but are not limited to development of software or artistic presentation, curriculum development, creation of a professional development program, action research and systematic program evaluations. *Prerequisite(s): EDUC 5513 or permission of the instructor.*

**EDUC 5763 Culture, Language, and Education**
This course focuses on the relationships between culture, language, and identity as they relate to human development and schooling. Topics include culture, language, identity, ethnicity, race, gender, and socio-economic status.

**EDUC 5773 Community Perspectives on School and Society**
Education and employment are increasingly driven by globalization; this loss of local control is a worldwide phenomenon. What happens to communities and our sense of belonging in the new “global marketplace”? What does it mean to be a citizen in a consumerist society? This course considers how teachers and schools can respond to these massive social, economic, and technological changes. Topics include cultural identity, social justice, and human and ecological development in both rich and poor countries.

**EDUC 5843 Instructional Design**
This course investigates historical and current developments in instructional design. Selected instructional systems are examined in terms of a design-delivery-evaluation model. A major focus is the application of models to specific curricular areas in elementary and/or secondary schools.

**EDUC 5853 Online Technology in Education**
This course explores the integration of online technology into educational practice. The ways in which technology is being integrated are considered as well as the implications. Particular attention is given to the role technological developments have played in inviting educators to reconsider our thinking with regard to fundamental educational concepts, such as learning and schooling. If using the course to meet concentration requirements, the focus of the study must be in the concentration area.

**EDUC 5873 Technology and Curriculum**
Technology has been broadly described as “a way of adapting”. In an effort to lend context to learning, progressive curriculum initiatives have sought to integrate this notion of technology with subjects of science, mathematics, engineering and the arts. Acronyms of STEM and STEAM have become common place in curriculum literature. This curriculum goes beyond using instructional technology to promote learning to include problem solving and critical thinking as a human endeavor to adapt. This course will address the historical evolution of technology as an integrated and inescapable component of 21st century education.

**EDUC 5913 Theoretical Perspectives on Leadership**
This course is intended to familiarize students with past and present thinking on leadership, especially as it applies to educational settings. Consideration is given to previous research on leadership, including that on traits, behaviour, situational leadership, and charismatic leadership. The course moves towards a focus on democratic and inclusive forms of educative leadership.

**EDUC 5923 Seminar and Practicum in Leadership**
This course is intended to provide graduate students in leadership with field experience in appropriate settings. Placements are chosen by the Program Coordinator in consultation with students. The course consists of regular seminars. Cases from field experiences are presented and discussed. Availability of this course depends on student numbers and practicum site availability.

**EDUC 5933 Equity and Leadership**
This course examines intersectional and cultural leadership models and contexts within organizations with an emphasis on educational settings. Coursework is informed by current research and practices in leadership that are founded on principles of equity and commitments to decolonization.

**EDUC 5943 Change Theory and The Learning Organization**
Change is a fundamental, and frequently problematic, aspect of organizational life. This course focuses on the process of change and examines the tensions and contradictions involved in this process. Attention is given to the premises under which change occurs and ways in which the process can be undertaken in a democratic and inclusive manner.

**EDUC 5953 Schools and Social Justice**
This course re-examines and deconstructs the roles which schools play in society. Instead of viewing schools merely as sites where knowledge gets passed from one generation to another, the focus switches to the roles which schools play in the distribution of social and economic benefits and in the reproduction of inequity. Central topics include poverty and education, knowledge and power, curriculum and ideology, and the reproduction of advantage and disadvantage.

**EDUC 5966 Graduate Thesis**
*Prerequisite(s): EDUC 5513 and EDUC 5113 or EDUC 5523.*

**EDUC 8013 Foundations of Educational Inquiry**
An examination of the purpose, process, nature, and ideals of education. Students engage with enduring educational philosophical and theoretical traditions and perspectives, the history of educational thought and the philosophy of education, in particular. A variety of foundational perspectives provide deeper understandings of the theoretical and methodological underpinnings of education. *Corequisite(s): EDUC 8013 is a corequisite of EDUC 8023 is a prerequisite for the remaining courses in the program.*

**EDUC 8023 Methodological Perspectives on Educational Research**
An examination of the import of methodological paradigms in educational research (building on the foundations of educational inquiry). Students investigate: (a) ontological assumptions; (b) epistemological views; (c) the role of logic, sound evidence and justified beliefs; (d) axiology (values and biases); and (e) rhetorical (research reporting structures) components of educational inquiry. *Corequisite(s): GEDU 8023 is a corequisite of GEDU 8013 is a prerequisite for the remaining courses in the program.*

**EDUC 8033 Doctoral Seminar: Contemporary Educational Theory**
An exploration of how educational philosophy, research paradigms and theories are manifested in contemporary educational research debates and dialogues. Through an intensive examination of a range of theories that inform studies in education, students gain an advanced and comprehensive understanding of contemporary educational theory within the Canadian and international contexts. *Prerequisite(s): EDUC 8013 and EDUC 8023. EDUC 8043 is a corequisite of EDUC 8033.*

**EDUC 8043 Focused Educational Studies**
A focused exploration of research topics reflective of the current roster of doctoral students. In a seminar setting, individual students study the research and theoretical literature in the educational area(s) that background and inform their research interest(s). *Prerequisite(s): EDUC 8013: and EDUC 8023. EDUC 8033 is a corequisite of EDUC 8043.*

**EDUC 8053 Advanced Research Seminar: Focus on Methods**
Students gain detailed knowledge and technical expertise related to methods appropriate to their research question(s), aligned with philosophical and methodological orientations. Issues related to research design process are addressed, as they differ from method to method. *Prerequisite(s): EDUC 8013 and EDUC 8023.*

**EDUC 8063/8073 Special Topics Educational Studies**
An exploration of a selected topic in educational studies to provide students with detailed knowledge and further preparation for advanced research. *Prerequisite(s): EDUC 8013 and EDUC 8023.*

**EDUC 8083/8093 Independent Study**
An Independent Study related to topics in educational studies. The curriculum for this course will be determined by the supervisor of the course in consultation with the student and other faculty members, as necessary. *Prerequisite(s): EDUC 8013 and EDUC 8023.*

**EDUC 8109 Comprehensive Examination: Research/Scholarly Portfolio**
Develop and orally defend an extensive scholarly portfolio demonstrating sufficient breadth, depth, creativity and engagement to undertake substantive research in the field. Comprising 10-15 artifacts, students will demonstrate knowledge and competence in each of five areas: general, in-depth, research, professional and collegial, and teaching and instruction (graded Pass/Fail). *Corequisite(s): Students complete the first five required courses (EDUC 8013, EDUC 8023, EDUC 8033, EDUC 8043, and EDUC 8053) and any additional special topics (EDUC 8063, EDUC 8073) and/or independent studies courses (EDUC 8083, EDUC 8093) while generating the contents of their portfolio.*

**EDUC 899Z Dissertation**
The dissertation must constitute a substantial and original contribution to the study of education. To complete this course, students must prepare a research proposal for approval by an appropriate faculty dissertation committee, complete the proposed study, and publicly defend the completed draft in a final oral examination (graded Pass/Fail). *Prerequisite(s): successful completion of all course work and successful completion of EDUC 8109.*

**EDUC 8990 Dissertation Continuation**

## English

Four courses will be offered annually from the following list. Course offerings are based on coverage, variety, and faculty availability.

**ENGL 5013 Special Topics in Literature and Culture 1**

**ENGL 5023 Special Topics in Literature and Culture 2**

**ENGL 5060 Scholarly Methods**

**ENGL 5113 Studies in Medieval Literature and Culture**

**ENGL 5213 Studies in Sixteenth-Century Literature and Culture**

**ENGL 5273 Studies in Postcolonial Literature and Culture**

**ENGL 5293 Studies in Renaissance Drama and Culture**

**ENGL 5313 Studies in Seventeenth-Century Literature and Culture**

**ENGL 5413 Studies in Eighteenth-Century Literature and Culture**

**ENGL 5513 Studies in Romanticism**

**ENGL 5553 Textual Studies**

**ENGL 5613 Studies in Nineteenth-Century Literature and Culture**

**ENGL 5713 Studies in Modern British Literature and Culture**

**ENGL 5813 Studies in American Literature and Culture**

**ENGL 5913 Studies in Canadian Literature and Culture**

**ENGL 5960 Graduate Thesis**

**ENGL 5973 Studies in Children's Literature**

Please consult the department website for a list of courses available in a given year. http://english.acadiau.ca

## Geology

**GEOL 5013 Appalachian Geology**
An overview of the geology and tectonic evolution of the Appalachian mountain belt. Emphasis is on Atlantic Canada; however, the entire orogen is covered, and comparison is made with correlative mountain systems in Europe and elsewhere.

**GEOL 5226 Paleoecology**
Principles of paleoecology and the application of these to actual field problems.

**GEOL 5303 Advanced Topics in Sedimentology**
Advanced studies in sedimentology. Topics may include carbonate sedimentology and diagenesis, phosphogenesis and phosphorite accumulation, iron formation sedimentology and petrography, sediment lithogeochemistry, and Precambrian oceanography.

**GEOL 5433/5443 Advanced Igneous Petrology**
Modern approaches to theoretical and practical study of selected igneous rock groups - petrography, geochemistry, magma genesis in relation to tectonic environment, relations to metallogenesis.

**GEOL 5533 Advanced Metamorphic Geology**
Studies in metamorphic geology, including some of structural-metamorphic geology, chemography, phase relationships of metamorphic rocks, tectonics and metamorphism.

**GEOL 5633 Applied Structural Geology**
Structural methods used in the analysis of deformed rocks, statistical treatment of data, sections, polydeformation, low to high metamorphic grade terrains, migmatite and gneiss, granite tectonics and fabrics, mylonite.

**GEOL 5703 Quaternary Paleoecology**
Principles of Quaternary paleoecology and the application of these to actual field problems with special emphasis on Holocene climate change.

**GEOL 5713 Advanced Quaternary Environments**
An advanced treatment of specific topics in Quaternary geoscience with particular emphasis on methods of investigating environmental change. Topics covered will include methods of paleoclimate reconstruction, advanced dating techniques, records of Holocene climate change, exploration in glaciated terrain. *Prerequisite(s): Permission of instructor.*

**GEOL 5743 Topics in Soil Science**
An examination of soils from a mineralogical and geochemical perspective, including dissolution, hydrolytic and oxidative soil forming processes, soil evolution and maturity, the effect of substrate composition on soil type, organic matter composition and decomposition, adsorption, desorption, controls on permeability, and essential nutrient and micronutrient cycling. Prerequisite(s): Permission of instructor.

**GEOL 5823 Advanced Geochemical Material Transfer**
Introduction to the theory of material transfer and its use in interpreting geochemical and mineralogical controls on rock composition, including water-rock and melt-crystal reactions and physical grain fractionation. Interpretation of results using petrologic hypothesis testing and error propagation.

**GEOL 5833 Advanced Exploration and Environmental Geochemistry**
Geochemical principles and techniques applied to mineral exploration and applied geochemistry. Includes theory of dispersion, natural precipitation barriers, solubility, sorption and the design and execution of geochemical surveys, analysis of samples and interpretation of results, including statistical evaluation technologies and data quality assessment.

**GEOL 5873 Advanced Mineral Deposits**
Studies in economic geology, which may include the occurrence, characteristics, geochemistry and physical properties of a variety of mineral deposits, opaque mineral petrography and texture interpretation, and application of isotopic systematics, fluid inclusion microthermometry and other analytical procedures to studies of ore genesis.

**GEOL 5883 Advanced Mineral Exploration**
Introduction to mineral exploration techniques, economic deposit evaluation strategies, and mining and processing methods. (3h lab).

**GEOL 5900 Graduate Seminar 1**
Review of current research topics and problems in the Geological Sciences. Instruction on presenting seminars, writing papers and preparing abstracts may be included. Weekly seminars will be held throughout the year. It may be co-taught with GEOM 5900.

**GEOL 5903 Graduate Seminar 2**
Review of current research topics and problems in the Geological Sciences. Instruction on presenting seminars, writing papers and preparing abstracts may be included. Weekly seminars will be held throughout the year. It may be co-taught with GEOM 5903. *Prerequisite(s): GEOL 5900.*

**GEOL 5913/5923/5933 Special Topics in Geology**
Review and analysis of selected topics and problems in Geology, utilising library, field and laboratory methods as required and involving preparation and presentation of formal papers. Specific topics, format, and content of the course will be established for each student by the department.

**GEOL 5960 Graduate Thesis**

## Applied Geomatics

**GEOM 5900 Applied Geomatics Seminar 1**
Review of current research topics and problems in Applied Geomatics or the Geological Sciences. Instruction on presenting seminars, writing papers and preparing abstracts may be included. Weekly seminars will be held throughout the year. It may be co-taught with GEOL 5900 and BIOL 5013/BIOL 5023.

**GEOM 5903 Applied Geomatics Seminar 2**
Review of current research topics and problems in Applied Geomatics or the Geological Sciences. Instruction on presenting seminars, writing papers and preparing abstracts may be included. Weekly seminars will be held throughout the year. It may be co-taught with GEOL 5900 and BIOL 5013/BIOL 5023. *Prerequisite(s): GEOM 5900.*

**GEOM 5913/5923/5933 Special Topics in Applied Geomatics**
Review and analysis of selected topics and problems in applied geomatics using field and laboratory methods as required and involving the preparation and presentation of formal papers or reports. Specific topics, format and content of the course will be established for each student by the NSCC Applied Geomatics Research Group advisor and the relevant department.

**GEOM 5990 Applied Geomatics Research Project**
The Applied Geomatics Research Project consists of a technical report, the form of which is determined by the project sponsoring proponent(s), the academic advisors and the candidate. This course will be evaluated by a committee which will normally consist of the proponent and the CoGS and Acadia advisors. A syllabus distinct to each project will be developed and approved by the supervisory committee before commencement.

## Interdisciplinary Studies (IDST)

**IDST 5186 Peacekeeping: Critical Perspectives**
This course examines all the elements of modern peacekeeping from consolidating security to ensuring good governance and promoting economic rehabilitation. It also looks at the major players involved on both the military and civilian sides including NGOs and presents a series of peacekeeping missions.

## Kinesiology

**KINE 5013 Advanced Research Methods in Kinesiology**
This course is designed to help graduate students develop the skills and knowledge needed to conduct research at a master's level. Students will explore the formulation of research questions, study design, qualitative, quantitative, and methodologies, data collection and management, grant writing, and ethical issues.

**KINE 5023 Professional Development Seminar**
This seminar-based course covers topics related to professional development for kinesiology graduate students. Educational topics relevant to each stream of the Master of Applied Kinesiology program will be presented and discussed to encourage interdisciplinary learning. Topics can include but are not restricted to, ethics and professionalism, professional skills, advances in Kinesiology, and current issues in Kinesiology.

**KINE 5033 Directed Readings**
Students will review the academic literature in a specific area of interest to them and of relevance to their thesis or major project, and will prepare a major paper. This will be accomplished through student-directed study under the supervision of a faculty member in the School of Kinesiology.

**KINE 5043 Special Topics**
In depth study of a selected topic in the field. Designed to enable students to take advantage of a particular expertise of visiting or permanent faculty.

**KINE 5103 Fall Professional Placement**
Students will complete 15h/week of professional placement combined with self-directed study to develop theoretical and practical competencies in applied exercise physiology (total 150 hours). Placements will be identified in the community in coordination with the faculty supervisor and students will work with one or more programs focusing on healthy or special populations, high performance or in occupational environments.

**KINE 5113 Winter Professional Placement**
Students will complete 15h/week of professional placement combined with self-directed study toward preparation of theoretical and practical competencies in clinical exercise physiology (total 150 hours). Placements will be identified in the community in coordination with the faculty supervisor and may involve one or more programs focusing on clinical populations.

**KINE 5123 Summer Professional Placement**
Students will complete a 30h/week (full-time; total 300 hours) of professional placement experiences in applied physiology environments. This course must be supervised or co-supervised by a faculty member in the School of Kinesiology.

**KINE 5143 Advanced Assessment 1**
Students will develop advanced competency in field and laboratory testing across a broad scope of practice. Theory and laboratory skills are applied in fitness testing, interpretation and counseling for use with individuals and groups, in healthy and special populations and in clinical, high performance, and workplace settings. (3h lab).

**KINE 5153 Advanced Assessment 2**
This course focuses on an advanced program level assessment and evaluation in a professional Kinesiology context. Students will assume a leadership role in a practical setting and assess outcomes of an exercise or lifestyle program through applied laboratory and other methods. This course must be supervised or co-supervised by a faculty member in the School of Kinesiology. *Prerequisite(s): KINE 5143.*

**KINE 5203 Coaching Practicum**
This course is based on students' experience throughout a competitive season in a coaching role and will include regular meetings and discussions with an approved coaching mentor, and regular critical evaluation of their coaching and its impacts through reflective practice. This course must be supervised or co-supervised by a faculty member in the School of Kinesiology.

**KINE 5223 Capping Project**
Coaches will complete an in-depth capping project that may involve critical analysis of an issue of relevance to coaching, a descriptive study, or documentation and analysis of a test of change. Coaches will be expected to integrate knowledge gained throughout the degree program. Supervision or co-supervision by a faculty member in the School of Kinesiology required.

**KINE 5243 Coaching Readiness & Effectiveness**
The most effective and current methods to prepare coaches and athletes for practices and competitions will be examined. Topics will be based on the best practices and modules identified by an array of experts in the field as core parts of the NCCP Advanced Coaching Diploma. The needs of the participating coaches will dictate the specific content selected.

**KINE 5263 Leadership**
Coaches will critically assess the alignment of their values-based philosophy with their leadership and coaching behaviour to identify leadership strengths and limitations. The impact of stress, team culture, culture change, and resistance to change will also be examined. Emphasis will be placed on critical evaluation of coaching practice based of research and theory of coach leadership.

**KINE 5313 Advanced Directed Readings**
Students will develop a deeper understanding of their research topic, as well as the areas in which this knowledge can be applied in the field. Therefore, students will review the literature that furthers their understanding of their topic area in either breadth or depth. To be completed under the supervision of a faculty member in the School of Kinesiology.

**KINE 5883 Independent Study in Applied Kinesiology**
A substantial evaluation or study chosen in consultation with a faculty advisor to reflect student interest. Such a study may be based on field, laboratory, or library study.

**KINE 5960 Graduate Thesis**
This course requires the student to propose and carry out a research study under the supervision of a KINE faculty member. Students construct, submit, and defend a written thesis document in accordance with the KINE format and Research and Graduate Studies regulations.

## Mathematics and Statistics

Most of the following courses are also offered at the undergraduate level, though the graduate courses will have additional requirements (assignments, projects, presentations, etc.). Credit cannot be obtained both for a graduate course and for the undergraduate course with the corresponding number (4xxx instead of 5xxx or 32yy instead of 51yy) and title. Courses will be chosen in consultation with the supervisor.

**MATH 5113 Probability**
Elementary set theory, outcome spaces, probability spaces, laws of probability (discrete and continuous), independence, conditionality, random variables, random vectors, distributions of functions of random variables, moments and moment generating functions, special distributions, law of large numbers, central limit theorem.

**MATH 5133 Regression**
An introduction to the methodology and theory involved in multi-linear regression. Topics include variable selection, indicator variables, correlation analysis and general linear hypothesis testing.

**MATH 5153 Nonparametric Statistical Inference**
Nonparametric statistical inference and statistical methods based on ranks. Topics include rank and sign tests, linear rank statistics, nonparametric analysis of variance, measures of concordance, relative power and efficiency.

**MATH 5163 Sampling Theory**
Statistical surveys, simple random sampling, sampling proportions and percentages, estimation of sample size, ratio and regression estimators, stratified random sampling, cluster sampling, probability sampling.

**MATH 5173 Design and Analysis of Experiments**
Single and multi-factor analysis of variance, fixed and random effects models, analysis of co-variance, experimental design, including randomized block designs, balanced incomplete block designs, and factorial designs. Other topics may include repeated measures, split plot designs, response surface models, and fractional factorial designs.

**MATH 5183 Time Series**
Seasonal effects, trends, descriptive methods. Stochastic processes, moving average and autoregressive processes. Autocorrelation. Model fitting and Box Jenkins models. Forecasting. Regression based procedures.

**MATH 5193 Statistical Learning**
Modern statistical methods for supervised and unsupervised learning with large and complex data. Topics include linear regression, classification, resampling methods, model selection and regularization, smooth regression, tree-based models, support vector machines, principal components and dimension reduction, clustering and statistical graphics.

**MATH 5213 Mathematical Statistics**
Sampling distributions, elementary decision theory, estimation, testing hypotheses.

**MATH 5223 Generalized Linear Models**
Review of least squares linear regression and maximum likelihood estimation. Generalized linear models, including binomial (logistic) regression, Poisson regression, contingency tables, and log-linear models. Other topics in regression modeling such as survival analysis.

**MATH 5233 Statistical Consulting**
The course aims to develop broad guidelines for a comprehensive approach to data analysis. Topics include data preparation, outlier detection and exploratory data analysis. Criteria for the selection of suitable methodologies are discussed as well as model validation methods and empirical evaluation methods. The course will be based largely on case studies.

**MATH 5333 Cryptography**
This course is an introduction to modern cryptographic techniques and their mathematical foundations. Review of elementary number theory and algebra; classical cryptosystems; encryption standards; public key cryptosystems; e-Business applications; digital signatures. Elliptic curve cryptography and quantum cryptography may be included.

**MATH 5423 Advanced Numerical Methods**
Numerical differentiation and integration, numerical solution of differential equations, optimization. The solution of problems on a computer forms an integral part of the course.

**MATH 5513 Topology**
Axioms for topological spaces; closure, interior and boundary operators; separation axioms; relativization; bases and subbases; mappings and continuity; compactness, connectedness, product spaces; metric spaces; completeness, nets and filters.

**MATH 5523 Measure and Integration**
Measurable sets. Lebesgue and Stieltjes integrals in $R^2$ and abstract spaces. Selected applications.

**MATH 5553 Real Analysis** Elements of points set topology in $R^2$ and metric spaces. Sequences of functions, uniform convergence. Derivatives. Multivariate and vector differential calculus. Multiple Riemann integrals. Jordan Content.

**MATH 5613 Theory of Optimization**
Linear and convex programming, convex functions and duality; Lagrange multipliers; Kuhn-Tucker methods. Topics may include genetic algorithms, simulated annealing.

**MATH 5733 Mathematical Modeling**
Aspects of mathematical modeling, dimensional analysis, multiple scale analysis, asymptotic methods, difference equations, calculus of variations.

**MATH 5753 Partial Differential Equations**
Topics may include linear second order partial differential equations (parabolic, elliptic, and hyperbolic), separation of variables, eigenfunction expansion, Fourier series, method of characteristics, nonlinear waves.

**MATH 5763 Signal Processing** Approximation theory, Fourier analysis, wavelet analysis, discrete signal processing, applications to audio and image processing and coding.

**MATH 5810 Research Seminar** Preparation and practice for participating in research seminars. Includes attending all department research seminars and presenting once in each term.

**MATH 5823 Topics in Applied Statistics**

**MATH 5843 Topics in Applied and Industrial Mathematics**

**MATH 5863 Topics in Mathematics**

**MATH 5883 Topics in Statistics**

**MATH 5960 MSc Thesis**

## Political Science

**POLS 5013 The Politics of Authoritarian Regimes**
This course examines the internal politics of authoritarian regimes. Major topics include military coups, regime survival strategies, corruption and patronage, ideology and propaganda, and revolutionary movements. Case studies will be drawn from around the globe. This course will also consider whether contemporary democracies are vulnerable to an authoritarian transition of their own.

**POLS 5023 Getting Elected in Canada**
In this course, students will apply academic literature about elections to design a campaign plan that will get a candidate elected to a Canadian legislature. Topics may include the history of Canadian elections, electoral systems, election rules, voter behaviour, candidate nominations, campaign jobs, leaders' debates, constituency campaigns, diverse representation, and digital campaign trends. *Antirequisite(s): Credit can be obtained for only one of POLS 3903 or POLS 5023.*

**POLS 5043 Critical Political Theory**
"Critical theory" refers to a tradition of holistic, interdisciplinary political theory grounded in a critique of domination. Thinkers studied in this course may include Adorno, Baudrillard, Benjamin, Butler, Derrida, Foucault, Haraway, Jameson, and Marcuse. Emphasis is placed on close reading and discussion of primary texts.

**POLS 5103 Canadian Government and Politics 1**
Special topics course in Canadian government and politics.

**POLS 5143 Masters Colloquium**
This colloquium course provides a forum for MA students to develop and present their thesis proposal and ongoing research, as well as introducing them to significant theoretical and methodological approaches to Political Science. *Prerequisite(s): Admission into the Graduate program.*

**POLS 5183 International Relations 1**
Special topics course in International Relations.

**POLS 5193 Comparative Government 1**
Special topics course in comparative government and politics.

**POLS 5243 Environmental Political Theory**
This course examines whether or how the values of justice, democracy, and ecological sustainability can be mutually compatible. Competing visions of "the good life", strategies, for political change, and conceptions of "nature" are examined in light of contemporary environmental crises.

**POLS 5283 International Organizations**
This seminar course explores the role of IOs in global politics. It considers their historical origins and evolution, the political, economic, and social forces that impact their operations, and their effectiveness.

**POLS 5293 Politics of Development**
This seminar course critically explores politics and political economy in the Third World, beginning with a discussion of "development." Subsequently, it explores legacies of colonialism, strategies and political impact of economic development, violent and peaceful political transitions, and factors mobilizing global and local civil society and social movements. *Prerequisite(s): Admission into the Graduate program.*

**POLS 5303 Approaches to the Study of Canadian Politics**
This course critically examines theoretical and methodological approaches to issues prominent in the literature on Canadian politics and government. We explore the theoretical and methodological assumptions and policy implications of issues including the role and nature of the Canadian state, national and sub-national political cultures, party competition, and elites.

**POLS 5343 Political Theory 1**
This course develops ideas central to political philosophy by means of analytic and interpretive inquiry. The specific 'topic' for each offering is available from the department.

**POLS 5383 International Relations 2**
This course explores the key theories of international relations and world politics. Readings will be selected from classic and contemporary writers.

**POLS 5403 Canadian Constitutional Law**
The role of the judiciary in the Canadian federal process and major constitutional problems traced back to Confederation. Discussion of the leading constitutional decisions of the Privy Council, the Supreme Court of Canada and the major trends in Canadian constitutional law including the Charter and the Division of Powers. *Prerequisite(s): Admission into the Graduate program.*

**POLS 5483 Politics of New Global Technologies**
This seminar explores political implications of advances in science and technology. In addition to the political impact of mass media, robotics, and nuclear technology, we explore the impact of cyber-technology, bio-technology, nano-technology on war, security, human rights, global governance and democracy. We ask how technological change affects the future of the world.

**POLS 5543 Directed Readings: Special Topics**
Directed readings by MA students under the supervision of an individual faculty member.

**POLS 5603 Indigenous Peoples' Politics and Policy Priorities**
Students will explore diverse Indigenous peoples' worldviews and values, legal perspectives and approaches, policy priorities and political strategies. Students will consider specific Indigenous initiatives, such as those related to Indigenous healing, health and education, Indigenous land and water governance, bio-cultural restoration and decolonization of Nature-human relations, and sustainable communities.

**POLS 5693 Democracy and the Market**
Explores contemporary challenges to democratic and democratizing states in the context of economic globalization. Theoretical analysis concentrates on the relationship between economic and democratic development and its influence on demands for and distribution of rights and material benefits. Theories illustrated using case studies from developed and developing societies. *Prerequisite(s): Admission into the Graduate program.*

**POLS 5743 Political Economy**
A survey of theories and models which have sought to explain the interrelationships among the state, the society, and the economy of a country, and the relationship between political power and economic and social (under)development in the context of globalization.

**POLS 5783 Applied International Ethics**
This seminar course is a critical exploration of ethical dilemmas in contemporary international politics. A special emphasis will be placed on cosmopolitan and communitarian approaches to issues such as international justice; war; terrorism; global poverty; sovereignty; human rights; women's rights; humanitarian affairs and intervention; and the environment. *Prerequisite(s): Admission to the Graduate program or permission of the instructor.*

**POLS 5803 Canadian Public Policy**
The social, political, cultural, and institutional forces which shape the form and content of public policy, the rationality of the policy process, the mushrooming of state activities, and the actual impact of governmental programs. *Prerequisite(s): Admission into the Graduate program.*

**POLS 5883 Politics of Human Rights**
This course examines what human rights mean, why they matter, and how they have come to influence contemporary global politics. We explore the political, legal, and ethical dimensions of human rights standards from a variety of perspectives in Political Science and the subfield of International Relations. *Prerequisite(s): Admission into the Graduate program.*

**POLS 5893 Theory and Politics of Citizenship**
Explores what citizenship means, how it develops, and how it is practiced in globalizing and multicultural societies. Theoretical debates about the meaning of citizenship will be complemented by case studies exploring migration/immigration, multiculturalism in advanced democracies, and struggles for the rights of women and Indigenous peoples. *Prerequisite(s): Admission into the Graduate program.*

**POLS 5900 Graduate Major Research Project**

**POLS 5960 Graduate Thesis**

**POLS 5983 The Politics of Asia/Pacific**
This seminar explores modern and global issues affecting the Asia/Pacific community. The course explores three important analytic frameworks: global/regional, "glocal" and local. The global/regional focus explores institutional governance, security and economic issues before and after the Cold War. The "glocal" focus develops the competing flows that complicate the global/regional framework. The local focus explores how global connections emerge within local events. *Prerequisite(s): Admission into the Graduate program.*

## Psychology

**PSYC 5013 Seminar**
This course involves directed study in the student's field of interest, in preparation for thesis research, undertaken with the student's advisor, and culminates in a written thesis proposal and successful defence of the proposal. Students must also attend departmental colloquia.

**PSYC 5023 Adult and Child Assessment: Foundations**
This course provides a foundation in psychological assessment of adults and children. The course covers the assessment process, test construction issues, diagnosis using the current version of DSM, interviewing skills, and report writing. In addition, major personality and cognitive psychological tests will be covered which assess personality, behaviour, intelligence, and achievement. Equity and diversity issues will be incorporated throughout.

**PSYC 5033 Adult and Child Assessment: Advanced Skills**
This course build upon the foundation in psychological assessment for adults and children provided in PSYC 5023. In addition to the psychological tests of PSYC 5023, additional tests will cover perceptual and memory deficits, emotional and behavioural adjustment, neuropsychological function, and other topics. Report writing will be emphasized, and students will conduct psychological assessments in the field. *Prerequisite(s): PSYC 5023.*

**PSYC 5043 Ethical Decision Making**
This course emphasizes recognizing ethical issues and applying problem-solving methods to reconcile conflicting values. A broad array of ethical issues is embodied in cases given to students for analysis. The Canadian Psychological Association's Code of Ethics provides the major set of orienting guidelines and rules.

**PSYC 5053 Psychotherapy 1: Foundations**
This course examines various empirically supported treatments. The therapeutic relationship and its importance to the therapist and the client are evaluated. Basic interview and therapy skills are introduced and rehearsed via role-playing, examination of case materials, and practice interviews. An anti-oppressive approach to therapy will be discussed throughout the course.

**PSYC 5063 Psychotherapy 2: Intervention Skills**
This course builds upon a good working knowledge of psychotherapy theories and general therapeutic skills, with emphasis placed on cognitive-behavioural theory (CBT) and techniques. Case formulation and basic CBT therapeutic skills will be introduced and rehearsed through role-playing, practice therapy sessions, and evaluation of case material. Cultural considerations in case formulation and treatment delivery will be addressed. *Prerequisite(s): PSYC 5053.*

**PSYC 5113/PSYC 5123 Research Design and Statistics 1/2**
This course will cover univariate and multivariate statistical procedures used in psychology. Emphasis is placed on the general linear model and how to apply the model as a function of data type, experiment design, and hypothesis testing strategy. Opportunities to apply concepts taught in lectures will be provided through regular assignments. *Prerequisite(s): PSYC 5113 or permission of the Department.*

**PSYC 5960 Graduate Thesis**
An empirical thesis is required of all candidates. A successful formal defence of the thesis proposal is required and is normally completed by the beginning of second year. *Corequisites: PSCY 5113 and PSYC 5123.*

**PSYC 6023 Advanced Research**
Non-thesis research which must be carried out under the supervision of one of the faculty members of the Department other than your thesis supervisor. This is an optional elective course, normally initiated by the student, who secures the permission of the faculty member involved. *Prerequisite(s): Permission of the Department.*

**PSYC 6073 Clinical Practicum and Psychopathology 1**
Students will conduct psychological assessments and treatment in one or more placements under the supervision of registered psychologists. The classroom component provides students with practicum-related support, career preparation, and a foundational knowledge of DSM diagnostic criteria of disorders and anti-oppressive training using a client-centered approach. Enrolment is limited to Acadia M.Sc. Clinical Psychology students and by permission of the Department. Credit can only be obtained upon successful completion of both PSYC 6073 and PSYC 6083. *Prerequisite(s): PSYC 5013, PSYC 5023, PSYC 5033, PSYC 5053 and PSYC 5063.*

**PSYC 6083 Clinical Practicum and Psychopathology 2**
Students will conduct psychological assessments and treatment in one or more placements under the supervision of registered psychologists. The classroom component provides students with practicum-related support, career preparation, and a foundational knowledge of DSM diagnostic criteria of disorders and anti-oppressive training using a client-centered approach. Enrolment is limited to Acadia M.Sc. Clinical Psychology students and by permission of the Department. Credit can only be obtained upon successful completion of both PSYC 6073 and PSYC 6083. *Prerequisite(s): PSYC 5013, PSYC 5023, PSYC 5033, PSYC 5053 and PSYC 5063.*

**PSYC 6103 Seminar: Special Topics**
This is a directed readings course taken under the supervision of one of the faculty members in the department; a student could also take an undergraduate course with additional course requirements to make it graduate-level. This course is an optional elective, normally initiated by the student, and taken with permission of the instructor involved. *Prerequisite(s): Permission of the Department.*

**PSYC 6153 Advanced Clinical Techniques**
This course is designed to allow graduate students to specialize in advanced and selected clinical areas. Advanced studies may be taken in areas that are not already taught in the program’s required courses such as family and couples therapies, other empirically supported therapies, group techniques, and other types of assessment such as forensic assessment. *Prerequisite(s): PSYC 5023, PSYC 5033, PSYC 5053, and PSYC 5063.*

## Social and Political Thought

**PHIL 5113 Topics in Social and Political Philosophy**
This course examines selected concepts, themes, or traditions within the field of social and political philosophy. Specific course content in any given year will be available from the Philosophy department.

**PHIL 5913 Directed Reading in Social and Political Philosophy**
A directing readings course will allow a student to pursue an individualized course of a study with an instructor. This will allow students to engage with materials and issues of direct relevance to research interests when these interests are not clearly or sufficiently covered by existing course offerings.

**SOPT 5113 Social and Political Thought Colloquium**
This course will serve as an introductory course. In this course, we will examine foundational and current debates in social and political thought, the nature of interdisciplinary inquiry, and the contested relationships between theory and practice.

**SOPT 5110 Social and Political Thought Colloquium Continued**
This course will serve as a continuation of SOPT 5113 Social and Political Thought Colloquium for second year and continuing students.

**SOPT 5213/SOPT 5223 Social and Political Thought Directed Readings**
This course provides students an individualized course of study on a chosen topic or author. *No prerequisite.*

**SOPT 5313 – Special Topic in Social and Political Thought**
This seminar course will explore a special topic in Social and Political Thought. The topic offered will be an area of inquiry that is not covered by the required core courses in the program, or the electives offered in the same calendar year. The course topic will be decided by the faculty member offering the course.

**SOPT 5960 Graduate Thesis**

## Sociology

**SOCI 5003 Graduate Seminar**
This required seminar is the venue for discussions of on-going thesis work and meets bi-weekly during the regular academic year. Among other requirements, a thesis proposal is required to be presented and discussed.

**SOCI 5113 Sociological Theory**
This required course considers, at an advanced level, at least three different approaches to theorizing as a creative element of sociology inquiry.

**SOCI 5123 Sociological Methodology**
This required course considers, at an advanced level, at least three different methodological bases for creative sociological inquiry.

**SOCI 5233 Global Health**
This course examines the local and transnational relations governing health and health care in global south settings. We investigate the relative role of international groups, nations, and local health care providers in shaping how health care is received (and not received). Topics include: political violence and care in conflict settings; poverty, structural violence, and neoliberalism; and diverging ideas about bodies and healing. *Prerequisite(s): Restricted to graduate students in the Faculty of Arts. Antirequisite(s): SOCI 4223.*

**SOCI 5263 Health, Environment, Poverty**
This course explores the interrelationship between our health, the environment, and social inequalities including poverty. A central question to explore will be “what can/does sociology offer in the face of the climate crisis”? Assigned readings explore international and local cases, allowing students to build connections. *Prerequisite(s): Restricted to graduate students in the Faculty of Arts. Antirequisite(s): Credit can be obtained for only one of SOCI 4263 or SOCI 5263.*

**SOCI 5433 Class, Gender, Indigeneity, Racialization**
This course examines exemplary analyses of the intersection of class, gender, Indigeneity, and racialization in a variety of social settings. *Prerequisite(s): Restricted to graduate students in the Faculty of Arts. Antirequisite(s): SOCI 4413.*

**SOCI 5603 Special Topics 1**
This course addresses the special interests of individual graduate students in an area of inquiry that is not covered by the general departmental areas of strength, but which is a central concern of a faculty member.

**SOCI 5613 Special Topics 2**
This course addresses the special interests of individual graduate students in an area of inquiry that is not covered by the general departmental areas of strength, but which is a central concern of a faculty member.

**SOCI 5960 Thesis**

# DEFINITIONS

The following words which appear throughout the calendar are defined here to help clarify understanding of the provisions contained in the calendar.

***Academic Year:*** The 8-month period from September to April (i.e., the Fall and Winter terms).

***Admissions Office:*** The office responsible for responding to inquiries on the university's programs and admission requirements. The admissions office determines acceptances to university programs and provides information on admissions procedures.

***Antirequisite(s):*** Courses that are considered so similar in content that a student may not receive credit for more than one of them.

***Audit Student:*** Any person permitted to attend a lecture-type course but who may not write papers or examinations, have access to equipment, technology, or supplies, or receive course credit. No record is kept of audits. Graduate students are not permitted to audit courses. Online courses may not be audited.

***Continuing Fee:*** The fee charged to graduate students to maintain enrolment in a graduate program. This does not apply to MEd students.

***Continuing Graduate Student:*** Any person who, subsequent to completing the maximum one or two years of a residency requirement, or its equivalent, registers annually to maintain eligibility to complete degree requirements, or any part-time graduate student who in a twelve-month September to August period takes no graduate level courses other than the thesis, but registers in order to maintain eligibility to complete degree requirements.

***Co-operative Education (Co-op):*** An academic program that formally integrates academic studies with discipline-specific, paid work experience.

***Corequisite(s):*** A course which must be taken concurrently with another course.

***Course:*** Unit of academic instruction for which 0-9h of credit is awarded.

***Credit Hour:*** The standard unit by which the course work offered by universities is normally measured. One credit hour (1h) is assigned to a class that meets fifty minutes per week in class instruction, exclusive of laboratory, tutorial, and examination requirements, over a period of one term, or for equivalent class hours at during the Summer.

***Department:*** A division of a faculty under the direction of a head. Each department offers one or more major programs of study.

***Dismissed Student:*** Any person required to withdraw from studies for lack of sufficient academic performance. The words "academic dismissal" appear on the official transcripts of such students.

***Exchange Student:*** Any student attending Acadia University through a formal agreement of exchange with another educational institution.

***Faculty:*** A grouping of associated subject areas under the direction of a dean. There are four faculties at Acadia: Arts, Pure and Applied Science, Professional Studies, and Theology.

***Fall/Winter:*** September to April
Fall – September to December
Winter - January to April

***Full-time Undergraduate Student:*** 1) Any person registered for at least 9 credit hours (9h) of instruction in either the fall term or the winter term is a full-time student for that term. 2) Any person registered for a total of 18 credit hours (18h) of instruction in the fall and winter terms may be defined as full-time for the period September-April. 3) Any person registered for 6 credit hours (6h) of instruction over a six-week period during Summer is a full-time student for that period.

Please Note: courses taken online normally will not count towards the calculation of full-time status.

***Full-time Graduate Student:*** Any graduate student in the first or second year of a program of studies leading to a master's degree, or in the first, second or third year of a doctorate, and who makes a demand upon the university's resources by enrolling in courses or engaging in research requiring supervision.

***Graduated Student:*** Any person who has completed a program of study and received a degree, diploma, or certificate. The word "graduated" appears on the official transcripts of such students.

***Independent Student:*** Any person permitted to take courses for credit, but who is not enrolled in any degree or diploma program.

***International Student:*** Any person who has entered Canada on a study permit for the purpose of attending this or another educational institution.

***Summer:*** May to August

***Major:*** A formally recognized area of concentration for which students must complete specific courses.

***Minor:*** A secondary area of concentration. All BA (except Theatre and Music) and BSc students must have a minor.

***Part-time Graduate Student:*** Any person registered for graduate courses that form a part of the course requirements of a graduate degree program but who does not fulfill the definition of a full-time graduate student.

***Part-time Undergraduate Student:*** Any student registered in undergraduate courses who does not meet definition of a full-time student.

***Prerequisite(s):*** A course which must be completed before registering in an advanced-level course in the same or related discipline.

***Registered Student:*** Any person admitted to a university program, or accepted as an independent student who has enrolled in a course, or for thesis research, by completing registration accurately and at the required time, who has had it approved as necessary, and by the Registrar, and who has paid the required fees to the Student Accounts Office.

***Registrar's Office***: The office responsible for overseeing the academic life of all students currently taking classes at the university. The Registrar records courses and grades on transcripts, guides students, schedules exams and classes and generally provides information on academic procedures and regulations.

***Returning Student:*** Any person who has registered for courses in the previous twelve-month period, and who has neither graduated nor been dismissed. In the latter cases, students must have applied for re-admission and been accepted.

***School:*** A division within a faculty which offers a professional program led by a director.

***Seminar:*** A course, usually at the advanced level, where classes are normally small and where the focus is generally on independent research shared with other students through the presentation of papers.

***Sessions:*** The approved periods within which courses are scheduled to begin and end, and subsequent to which grade reports and transcripts are issued. Sessions include the Fall term (Sept-Dec), Winter term (Jan-Apr), Summer (May-Aug) and online open-entry.

***Tutorial:*** Instruction given to students individually or in small groups.

***Transcript:*** A document prepared by the Registrar's Office recording a student's entire official academic history including courses taken and grades assigned.

***Visiting Student:*** Any person permitted to take courses for transfer of credit to another college or university.

**Academic Success and Support Program (ASSP)**
The Academic Success and Support Program enables students on academic probation to return to Acadia and develop the skills required to be successful. The ASSP requires students to attend classes, as well as to work with advisors and other support staff in order to improve their academic standing.

**Acadia Athletics**
Acadia Athletics Complex, 550 Main St
acadiaathletics.ca

Acadia University is a member of U Sports and Atlantic University Sport (AUS). Acadia's varsity teams compete annually for regional and national championships in women's and men's basketball, men's football, men's hockey, women's and men's soccer, women's volleyball, women's cross-country, women's rugby and women's and men's swimming. The University is proud of its strong athletic tradition, with a number of conference and national championships to its credit.

Varsity and club sports, recreation, intramurals and fitness activities utilize the university's athletic facilities which include: a gymnasium, an artificial multi-purpose field with a surrounding eight lane rubberized track and lighting; an arena with an Olympic-sized ice surface; a 25m swimming pool; six natural grass practice fields, indoor walking track with rubberized surface and a fitness centre. Acadia's athletic program dates back to 1875 and has gained national and international recognition as a competitive and successful athletic program.

**Acadia Counselling Centre**
Old Student Union Building – lower level
Phone: 902-585-1246
counselling@acadiau.ca; counsel.acadiau.ca
Hours: Monday to Friday 8:30am to 12noon; 1:15pm to 4:30pm. Evening appointments Monday and Wednesday 4:30 -7:30

The Acadia Counselling Centre provides supports for students through individual and group counselling. We work with students who are struggling with mental health issues, emotional difficulties and anything related to the stress and pressures of being a student. Our team of professionals help students learn about caring for their health and wellbeing in the present and for their future lives.

**Acadia Students' Union**
ASU Students' Centre (SUB), 30 Highland Avenue
theasu.ca

President: Old SUB #620
Vice-President Finance & Operations: Old SUB #621
Vice-President Academic & External: Old SUB #619
Vice-President Events & Promotions: Old SUB #622
Vice-President Student Life: Old SUB #618

Acadia Students' Union is a not-for-profit, student-governed organization dedicated to serving its members through effective representation and communication. The ASU was established in 1967 and works to offer innovative and quality services while providing a variety of opportunities which enhance the overall University experience of the students of Acadia. Acadia Students' Union believes in, and upholds, the values of integrity, excellence, and respect, while recognizing the importance of fun, community spirit, and the tradition upon which the Union was founded.

The ASU Students' Centre, in which the ASU operates, focuses primarily on serving the needs of the student community by providing opportunities for non-academic activities and promoting an environment which features other services designed to complement and enhance student life. All students also have the right to access the services of the Vice-President Academic & External of the ASU for any matter concerning their academics.

**Acadia Students' Union Health, Dental and Medical Plan Coverage for Students**
Acadia Students' Centre, 30 Highland Ave, Room 301
ASUsupports.ca

Acadia Students' Union (ASU) provides Medical, Health, and Dental Coverage to all full-time Canadian and all international students at Acadia University. The ASU has worked hard on behalf of its members to provide comprehensive benefits at affordable, student-friendly prices. For complete details regarding benefits visit ASUsupports.ca

All full-time Canadian students are automatically assessed the ASU Health & Dental Plan Fees, $398.00
All international students are automatically assessed the ASU International Medical and Dental Plan Fees, $995.00

All benefit plan fees are automatically added to the student's account. For students beginning their studies in the Fall the coverage will run from September 1 to August 31. Students beginning their studies in the Winter Term will have coverage from January 1 to August 31.

Students who have comparable coverage and do not want the ASU provided benefit plans may submit an opt-out request. All opt-out requests are made online by visiting https://studentvip.ca/ and must be submitted during the allowed opt-out period. The opt-out period for the Fall term is **August 16, 2025 to September 15, 2025**. The opt-out period for the Winter term is **December 16, 2025 to January 15, 2026. There are no exceptions to these deadlines.**

**Accessible Learning**
Rooms 111-115, Rhodes Hall, 21 University Ave
https://www2.acadiau.ca/student-life/accessiblelearning.html

Accessible Learning Services works with students, staff, and faculty to facilitate academic accommodations and services for students with disabilities (permanent and temporary). Accommodations are based on the recommendations that are provided in students' documentation. Accessible Learning Services also provides supports including academic skill development workshops for students, referrals to on-and-off campus resources, employment-readiness skill development and work placements, and educational awareness training.

For more information about Accessible Learning Services' registration process and support services, please contact one of the staff members listed below or visit https://www2.acadiau.ca/student-life/accessiblelearning.html.

Accessible Learning Services Contact Information:
Marissa McIsaac; Manager, accessible.learning@acadiau.ca, 902-585-1290
Gillian Hastey; Accessibility Resource Facilitator, accessible.learning@acadiau.ca 902-585-1823
Caleb Stark; Coordinator, Exam Operations accessible.learning@acadiau.ca, 902-585-1605
Emily Duffett, MA; Coordinator, Work Integrated Learning Program, WIL@acadiau.ca, 902-585-1823
Kate Johnstone; Accessible Learning Support Advisor, accessible.learning@acadiau.ca, 902-585-1605

**Alumni Relations**
Alumni Hall, 512 Main St
Phone: 902-585-1459
alumni.office@acadiau.ca; alumni.acadiau.ca
Instagram: @acadia_alumni
Facebook: Acadia University Alumni https://www.facebook.com/acadiaalumni
X (Twitter): @acadia_alumni

It is the University's wish for alumni of Acadia to continue to possess the same sense of commitment to the University and each other that they experienced while they were members of the student body. Working closely with the Board of Directors of the Alumni Association, the Alumni Relations Office, part of Acadia's Office of External Relations, engages alumni in the life of the university by coordinating annual class reunions; developing and supporting regional programming activities; offering a variety of virtual program options and communicating about life on campus and the lives of alumni via electronic communication, mailings, and the Acadia Bulletin (our alumni magazine). Alumni Relations also organizes special events during the year such as the Alumni Dinner, Homecoming, and the Annual Alumni Golf Tournament. Being considered alumni of the university means that an individual has graduated from Acadia or has completed at least two years and left the university in good standing. Alumni should remember to let us know where they are as they move about the world in their careers and lives so that the Alumni Relations Office can share information about what we are doing and where we will be.

**Bookstore and The Lumber Yard**
Acadia Bookstore: Wheelock Hall, 44 Highland Ave
Phone: 902-585-1201; Fax: 902-585-1064; 0921mgr@follett.com; acadiashop.ca
Hours: Mon to Fri 9am–5pm
The Lumber Yard: Acadia Athletics Complex, 550 Main St
Phone: 902-585-1903; Fax: 902-585-1064
Hours: Tues to Fri 12pm–4pm (and open during most Varsity games)

The goal of the Bookstore and The Lumber Yard is to provide essential books and supplies at the lowest possible prices. An online book order service is available as well as "Books on Beds" delivery to students in residence. A full special book order service is provided along with an extensive stock of Acadia-branded merchandise, souvenirs, and computer software. Text buybacks are held every day during normal business hours.

Students withdrawing from courses will be permitted to return texts for refund or exchanges for a period not exceeding 7 days from the opening of each semester or 2 days from the date of purchase. In order to obtain full refund, books must be in perfect, unmarked condition. The student must also provide proof of the course withdrawal and the cash register receipt.

**Career Services**
career.services@acadiau.ca;
Hours: Mon to Fri 8:30am - 4:30pm
Career Services provides support to Acadia students and alumni to help launch and advance their careers through a variety of resources such as resume and cover letter consultations, workshops, online job postings, and employer recruitment and networking events.

**Centre for Teaching and Learning Excellence**
Led by the Vice-Provost Teaching and Learning Excellence, the Centre for Teaching and Learning Excellence provides centralized support to all Acadia faculty who are teaching Acadia courses, including scheduled training and workshops for Acadia faculty. The Learning Technology and Instructional Design team provides instructional design support for the development and teaching of online courses, advanced support for selected applications including Moodle and the Survey System (LimeSurvey), and technical support for technology-based exams.

**Chaplaincy**
University Chaplain, Reverend Dr. Marjorie Lewis
Manning Memorial Chapel
Phone: 902-585-1203 Cell: 902-599-2436
chapel.acadiau.ca
Email: marjorie.lewis@acadiau.ca
https://chapel.acadiau.ca/Home.html
https://www.facebook.com/manningmemorialchapel/
https://www.instagram.com/manningmemorialchapel/?hl=en

The Chaplaincy is provided by the University to enable the academic community to address the spiritual questions and needs which arise. There is a full-time University Chaplain, with an office on campus in the Manning Memorial Chapel. The Chaplain is available for consultation and support for all students. Daily Prayer, weekly Prayer Meeting, weekly Bible Study and Sunday evening Worship Services are held during term. These are Christian and ecumenical in orientation and Services include music led by the Chapel Choir. Guest musicians sometimes participate in Chapel worship and other programs. The Chaplain is also available to facilitate arrangements for students from other faith traditions to organize worship and special celebrations. In addition, special observances, social and recreational activities are conducted within the Chaplaincy Program.

Six student Chapel Assistants are employed to assist in this Program and participate in leading the worship and other activities. Local clergy participate in special worship services and, on occasion, serve as guest preachers on Sunday evening.

**Academic Exchange Program**
Admissions Office, University Hall, 15 University Ave
Phone: 902-585-1300; Fax: 902-585-1081
Email: globallearning@acadiau.ca

Acadia University's Global Learning Program facilitates the bilateral academic exchange of full-time students between Acadia and our partner institutions. Our formal partnership agreements offer students the opportunity to study abroad at a partner institution for one (1) or two (2) academic semesters during their undergraduate degree.

Acadia University has a growing number of agreements with institutions internationally. The program is managed by the Coordinator of Exchange and Study Abroad, who is responsible for providing information for interested students, overseeing the selection and application process, liaising with host institutions, and providing pre-departure and reintegration sessions for those studying abroad.

Acadia Student Eligibility Requirements:

- Successful completion of 45h prior to applying for exchange.
- A CGPA of 2.50 or better.

Students are required to study full-time abroad at their host institution. Acadia students can transfer up to 15h per exchange semester towards their academic program, providing all attempted courses are completed successfully.

Visit ExchangeProgram.acadiau.ca to learn more.

**Healthy Campus Programming**
The Department of Athletics ensures a year-round continuum of programs. Student growth occurs through participation in programming which ranges from self-directed recreational activities and Intramurals to high performance fitness, competitive sport, and leadership opportunities.

Students enjoy a variety of options for self-directed fitness and recreation opportunities. The campus provides open space that can be used for free-time activities, such as soccer, touch football, and Ultimate. The campus has ready access to outdoor walking, jogging, and hiking trails for personal physical activity. Indoor activities include ice activities such as figure-skating, shinny, and broomball; court sports include basketball, volleyball, Frisbee and indoor soccer. Students may also use the fitness centre, courts and pool. All of these activities can be done individually or as a group.

**Library Services**
Vaughan Memorial Library, 50 Acadia St
library.acadiau.ca

The Vaughan Memorial Library is a place to study, research, do homework, and de-stress. It's home to six floors of print and multimedia resources, extensive digital resources, group and individual study spaces, gender-neutral restrooms, printers, scanners, and more.

Our most important resource is our people! The dedicated team of librarians, archivists, staff, and student assistants work together to provide the resources and services that students, faculty, staff, and community members need.

We are always happy to help, and we'd love to hear from you! Ask us anything.

Use of library spaces, equipment, and services is guided by university policies that apply to the entire campus.

Visit our website for up-to-date hours and to find out the librarian for your subjects. https://library.acadiau.ca/home.html
Follow us on social media* to find out about stressbusters like free snacks, yoga, and therapy dogs on site:
https://www.instagram.com/acadialibrary/
https://twitter.com/acadialibrary
https://www.facebook.com/AcadiaUniversityLibrary/
https://www.pinterest.ca/AcadiaULib/

**Open Acadia**
https://openacadia.acadiau.ca

Open Acadia provides innovative, inclusive, and accessible learning opportunities for Acadia students and the wider community. Led by the Director of Open Acadia, the unit facilitates summer and online, continuous-intake courses providing students with flexible options to work towards their degree. Educational opportunities are also offered to youth, professionals, and seniors. Programs are delivered on-campus, off-campus, or online using pedagogical methods that match the preferences of diverse student groups.

Open Acadia's Learning Innovation team provides support to all Acadia faculty who are teaching Acadia courses. The unit provides instructional design support for the development and teaching of online courses, as well as scheduled training and workshops for Acadia faculty.

Open Acadia also provides advanced support for selected applications including Moodle and the Survey System (LimeSurvey), as well as technical support for technology-based exams.

**Registrar's Office**
1st Floor, University Hall, 15 University Avenue
Phone: 902-585-1222; Fax: 902-585-1081
registrar.acadiau.ca

The Registrar's Office helps students, parents, and others with academic and non-academic questions concerning registration, transcripts, degree audits, prerequisites, verifications of enrolment, convocation, important dates, courses, exams, and academic regulations, etc. We're here to assist you on your journey and to keep you on your path. We'll do our best to answer your questions or put you in touch with someone who can.

**Residence Life**
1st Floor Eaton House
Phone: 902-585-1417
residencelife@acadiau.ca; residencelife.acadiau.ca

Residence Life staff are committed to ensuring the comfort and safety of all students living in residence. Residence Life is here to provide students with a safe and secure, comfortable, and enjoyable living environment that promotes social inclusiveness, responsibility, self-governance and accountability, academic achievement, community development, and personal fulfillment.

Acadia's residences offer a variety of room choices, including double rooms, single rooms, and single rooms in shared suites. Our eleven residences range from small and quaint historic buildings to large modern ones. Various living environments are offered to meet the needs of our students, including quiet sections, substance free, women only, and upper year sections.

The Residence Life department is also offering Themed Communities for the 2025-26 academic year. Themed Communities are interest-based environments that connect diverse yet likeminded people from across all academic programs with one shared interest. Being part of these communities enhances one's first year experience through connecting oneself with others that share these common social identities as well as engaging with faculty and professional staff through personable and leadership enhancing programming opportunities tailored to the community you reside in! Applications to be part of the Themed Community of your choosing will be available during the residence application period.

Student staff, consisting of Resident Assistants (RAs) and Senior Resident Assistants (SRAs), live in residence and act as a resource to all in-house students. The student staff are supported by our team of Residence Life Coordinators and other members of the Student Services professional staff. Residence Life offers various programs to promote academic success, community building, diversity, health and wellness skills, and community service throughout the school year.

Residence Life is committed to providing an inclusive community for students with diverse needs. Accommodations are available for students with specific accessibility requirements. These include single rooms, private washrooms, emotional support and service animals, and mobility equipment. For more information about accessibility accommodations, please contact Acadia's Accessible Learning team at accessible.learning@acadiau.ca. Special accommodations may also be available for students with non-medical needs such as trans and gender diverse students. Please contact residencelife@acadiau.ca for more information.

**Safety and Security**
Students' Union Building, Room 519
Phone: 902-585-1103
security@acadiau.ca; security.acadiau.ca

The Department of Safety and Security provides security services and communication 24 hours a day throughout the calendar year. We work in cooperation with the students, faculty, and staff of Acadia University, and the community of Wolfville, to provide a safe and secure environment in which to live, study, work, and relax on the Acadia University campus.

In addition to standard security responsibilities for buildings and property, our services also include the Safe Walk service; student campus patrol; parking services; lost and found; production, issuance, and control of identification cards for students, faculty and staff; a nightly local shuttle service; medical shuttle service, locksmith/access control; incident investigations; event security; and emergency planning. The Department of Safety and Security employs approximately fifty students on a part-time basis throughout the year.

The Department of Safety and Security is also responsible for Occupational Health and Safety for the Acadia University campus. Security staff are versed in hazard identification and incident investigation. The department also employs an Occupational Health and Safety Coordinator.

**Scholarships and Financial Aid**
1st Floor, University Hall
Phone: 902-585-1574, 902-585-1543; Fax: 902-585-1081
financial.aid@acadiau.ca; financialaid.acadiau.ca

The Scholarships and Financial Aid Office administers the university undergraduate awards which include scholarships, prizes, awards, and the university bursary and loan program. The office promotes external scholarships and refers students to various external scholarship, bursary, and award opportunities. It acts as liaison between students and the various provincial student assistance offices. Acadia University also participates in the William D. Ford Federal Direct Loan (Direct Loan) Program for American students.

**Student Accounts**
1st Floor University Hall
Phone: 902-585-1297; Fax: 902-585-1081
student.accounts@acadiau.ca; acadiau.ca/student-services/student-accounts.html

The Student Accounts Office is the collection point and information contact for all student-related fees and charges. The office assists students and their families with payments, student loan processing and acts as a liaison between students and the various provincial student assistance offices; collects all documentation regarding third party sponsors, external bursaries and scholarships and submits invoices each semester for these funds; and issues Canada Revenue Agency taxation receipts annually for tuition costs (T2202) as well as T4A documents for any scholarship, bursary or honorarium payments.

**Student Health Services**
Dennis House, West Door
Phone: 902-585-1238

Your health and well-being are a top priority of Acadia University, and the Health Services Centre team is here to support those needs. Our physicians are available to all Acadia University students for health/medical care and can function as your family doctor while you are away from home. Students can book either phone or in-person appointments.

Valid provincial health cards or the Acadia Health Insurance (ASU health insurance) card are required to avoid a fee being collected for each visit. No other insurance will be accepted.

**Technology Services**
Beveridge Arts Centre
Phone: 902-585-4357 (HELP); 888-609-3330 (toll free)
Live Chat (ts-chat.acadiau.ca); helpdesk@acadiau.ca
hub.acadiau.ca; ts.acadiau.ca
Status Portal (acadiau.status.page)
Follow us on X (Twitter) @TSAcadia

Technical support is provided to students, faculty, and staff, through the Technology Services Desk. You can contact us in several different ways: online using the HUB Service Portal, via Live Chat, by phone, or with in-person visits. Please see the Technology Service Portal at hub.acadiau.ca for further information.

The Technology Service Desk assists with academic application software, laptop problems, printing, and accessing the WiFi and other Acadia network resources. Specialized equipment for academic purposes is available for use, including document scanning, digital video and still cameras, and various adapters and accessories.

**Wong International Centre**
Phone: 902-585-1690 or 902-585-1865; Fax: 902-585-1038
international@acadiau.ca; international.acadiau.ca

The Coordinator, International Student Advising and the Wong International Centre is responsible for the management of the Centre, international student advising, and program development. The coordinator provides scheduled orientations to assist new international students on their arrival and is responsible for providing information and advice to all international students to help them adjust to life in Canada. The coordinator also acts as a liaison between international students and the community including domestic students, faculty, staff, the department of immigration and the town of Wolfville.

## Faculty of Arts

**Office of The Dean of Arts**
**Duke, David F**., BA, PhD (Alberta), Professor of History and Dean
**Denise Bonnell**, Assistant to the Dean of Arts

**Department of Economics**
**Beaudoin, Justin**, BComm, MScB (UBC), PhD (University of California, Davis), Associate Professor
**Davis, Andrew**, BSc (Memorial), MA, PhD (Rochester), Associate Professor and Head
**Kayahan, C. Burc**, BA (Marmara), MA, PhD (Guelph), Professor
**Moussa, Hassouna**, MA, PhD (Minnesota), Professor
**VanBlarcom, Brian**, BA, MA (Acadia), PhD (Clemson), Associate Professor
**Wang, Xiaoting**, BA (Renmin), MA, PhD (Queen's), Professor
**Watson, Barry**, BA, MA (UNB), PhD (Dalhousie), Professor

**Department of English and Theatre**
**Ahern, Stephen**, BA (Queen's), MA (Carleton), PhD (McGill), Professor
**Barratt, Susan**, BFA (Concordia), Lecturer (Theatre)
**Campbell, Wanda**, BA (UNB), MA (Windsor), PhD (Western Ontario), Professor
**Cunningham, Richard**, BA (Simon Fraser), MA (Alberta), PhD (Pennsylvania State), Professor
**Damour, Michelle,** BA (Dalhousie), MA (Acadia), Instructor II
**Devine, Michael**, BA, MFA (York), PhD (Toronto) Professor (Theatre)
**Hudson, Susann**, BA (King's), MFA (UBC), Technical Director (Theatre)
**Jewell, Claire**, BA, BEd (Acadia), Instructor
**La Rocque, Lance**, BA, MA (Victoria), PhD (York), Associate Professor
**Laughlin, Thomas A**., BAH (Trent), MA (Carleton), PhD (Toronto), Assistant Professor
**Narbeshuber, Lisa**, BA (Toronto), MA (Victoria), PhD (Toronto), Professor
**Peters, Amanda,** BAH (Mount Allison), MA, MLIS, MPA (Dalhousie), MFA (IAIA), Associate Professor
**Pinder, Kait**, BAH, MA (Western), PhD (McGill), Associate Professor and Head
**Quéma, Anne**, License (Université de Savoie), MA (Carleton), PhD (London), Professor
**Robinson, Laura,** BA (Acadia), MA (Manitoba), PhD (Queen's), Professor
**Saklofske, Jon,** BA, MA (Saskatchewan), PhD (McGill), Professor
**Slights, Jessica**, BA (Queen's), MA (British Columbia), PhD (McGill), Professor
**Thiyagarajan, Nandini,** BAH (Alberta), MA, PhD (McMaster), Associate Professor
**Whetter, Kevin**, BA (Trent), MA, PhD (Wales), Professor

**Environmental and Sustainability Studies**
**Cohen, Alice,** BAH (McGill), MA (UBC), PhD (UBC), Professor and Coordinator
**Mazer, Katie,** BA (McGill), MScPlan (Toronto), PhD (Toronto), Assistant Professor

**Department of History and Classics**
**Cooper, Mariah**, BAH (Trent), BEd (Queen's), MA (MUN), PhD (MUN), Instructor II
**Dennis, Michael J**., BA (Waterloo), MA, PhD (Queen's), Professor
**Doerr, Paul W**., BA, MA, PhD (Waterloo), Associate Professor
**Duke, David F**., BA, PhD (Alberta), Professor, Dean of Arts
**Gardner, Chelsea A.M.**, BA (McMaster), MA, PhD (UBC), Associate Professor
**Henderson, T. Stephen**, BA, BEd (Acadia), MA, PhD (York), Associate Professor
**Hewitt, Sonia**, BA (Wilfred Laurier), MA (Queen's), PhD (McMaster), Assistant Professor
**MacDonald, Jennifer**, BA (Mount Allison), MA, DPhil (York, UK), Associate Professor
**Rombough, Julia**, BAH (Concordia), MA (Concordia), PhD (Toronto), Associate Professor
**Seamone, Donna**, BSc (Acadia), MDiv (Wilfred Laurier), PhD (Berkeley), Associate Professor and Lumsden Chair
**Sedgwick, Jamie**, BAH (Acadia), MA (Canterbury, NZ), PhD (UBC), Associate Professor, Head
**Swain, Natalie J.,** BA (Winnipeg), MA (Bristol), PhD (Bristol), Assistant Professor
**Whidden, James**, BA (Dalhousie), Islamic Studies (McGill), MA, PhD (SOAS, London), Professor

**Languages and Literatures**
**Alvarez, Maria Antonieta**, BA (Laval), Lecturer
**Ashley, Kate**, BAH (Acadia), Maîtrise (Rouen), MPhil (Cambridge), PhD (Edinburgh), Professor, and Assistant Dean of Arts (Interdisciplinary and Language Programs)
**Boudet, Alexis,** MA Education (Poitiers), France, Lecteur
**Davidson, Marina**, Doctorat ès Lettres, (Poitiers), France, Assistant Professor
**Dennis, Michael, J,** BA (Waterloo), MA, PhD (Queen's), Professor and Acting Head
**Goyette, Stéphane**, PhD (Ottawa), Assistant Professor
**Delpêche, Bernard**, BA (Manitoba), MA (British Columbia), PhD (Toronto), Associate Professor
**Glachant, Sarah**, Licence (Rouen), MA Rouen, France; Lectrice
**Lindig, Anna,** MA Education (Regensburg), Germany, PAD - Lecturer

**Poertner, Julia**, PhD (Dalhousie), Assistant Professor
**Thomas, Christian Erik**, BSc (Maryland), MA (British Columbia), PhD (British Columbia), Associate Professor
**Wilbers, Liam,** MA Education (Hamburg), Germany, PAD - Lecturer

**Law and Society**
**Crandall, Erin**, BA (STU), MA, PhD (McGill), Professor and Coordinator
**Lockhart, Emily**, BAH, MA (UNB), PhD (York), Assistant Professor
**Wheeldon, Johannes,** BAH (Dalhousie), LLM (Durham), PhD (Simon Fraser), Post Doc (Washington State), Assistant Professor

**Department of Philosophy**
**Abela, Paul**, BA (Toronto), MA (Queen's), D. Phil (Oxford), Associate Professor
**Ramsay, Marc**, BA (York), MA (Dalhousie), PhD (Western), Associate Professor
**Wilks, Anna**, BA (Victoria College), MA (Toronto), PhD (Toronto), Instructor II
**Wilks, Ian**, BA, MA, PhD (Toronto), Professor

**Department of Politics**
**Alexander, Cynthia**, BA, MA (Alberta), PhD (Queen's), Professor
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**Brickner, Rachel**, BA (Michigan State), PhD (McGill), Professor
**Crandall, Erin**, BA(STU), MA, PhD (McGill), Professor
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**Marland, Alex**, BAH (Carleton), MA (Memorial), PhD (Lancaster), Professor
**Mutlu, Can, E.**, BA. MA(UVic), DPhil (Ottawa), Associate Professor and Head
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**Whitehall, Geoffrey**, BA (Carleton), MA (UVic), DPhil (Hawaii), Professor

**Department of Sociology**
**Auger, Jeanette,** BA (British Columbia), MA (British Columbia), PhD (British Columbia), Professor Emerita and Adjunct Professor
**Brittain, James J**., BA (UNB Saint John), MA (Acadia), PhD (UNB), Professor
**Carlson, Jesse**, BA (Manitoba), MA (Manitoba), PhD (York), Assistant Professor
**Casey, Rebecca**, BA (Brock), MA (Lakehead), PhD (McMaster), Associate Professor
**Frank, Lesley**, BA (King's), MA (Acadia), PhD (UNB), Professor and CRC (Food, Health and Social Justice)
**Mohammadi, Foroogh,** BA, (Persion Gulf University), MA (University of Tehran), Assistant Professor
**Rondinelli, Elizabeth**, HBA (British Columbia), MA, PhD (York), Assistant Professor
**Rudrum, Sarah**, BA (UNBC), MA (York), PhD (UBC), Professor
**Swiss, Liam,** BAH (Calgary), MA (Carleton), PhD (McGill), Professor and Head

**Women's and Gender Studies**
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**Mazer, Katie,** BA (McGill), MScPlan,PhD (Toronto), Assistant Professor
**Quéma, Anne**, License (Université de Savoie), MA (Carleton), PhD (London), Professor and Coordinator

## Faculty of Professional Studies

**Office of The Dean of Professional Studies**
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**Guo, Wenxia**, BEng (Shanghai), MSc, PhD (Manitoba), Associate Professor
**Kapoor, Harish**, MBA (University of Poona, India), MMS, PhD (Carleton), Professor
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**Price, Shelley**, BComm (Saint Mary's), MBA (Saint Mary's), PhD (Saint Mary's), Associate Professor
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**Sears, Donna**, BA (Mount Allison), MBA (New Brunswick), PhD (McGill), Associate Professor
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**Sheppard, Michael**, BSc (Acadia), MASc, PhD (Waterloo), Associate Professor
**Stack, Ryan,** BComm (Memorial), MSc (Queens), MBA (Memorial), CPA (CA), PhD (Queens), Associate Professor
**Vibert, Conor T**., BComm (McGill), MBA (Concordia), PhD (Alberta), Professor
**Wang, Yinglei**, BEng, MMgt (BUAA), PhD (Western), Professor

**Weatherbee, Terrance**, BSc (Dalhousie), PSC (Toronto), MBA (St. Mary's), MDS (Royal Military College), PhD (St. Mary's), Professor
**Williams, Kristin,** BA (York), MAIS (Royal Roads), PhD (St. Mary's), Associate Professor
**Yang, Jun**, BSc, MSc (Tianjin), PhD (Queen's), Professor and Fred C. Manning Chair in Business Administration

**Department of Community Development**
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**Colton, John**, BA (Washington), MA, PhD (Alberta), Professor and Head
**Cunsolo, Ashlee**, BAH (Guelph), PhD (Guelph), Professor, Provost and Vice-President, Academic
**Dyment, Janet, E.,** H.BSc (Trent), BEd (Queens), MSc (Simon Fraser), PhD (Lakehead), Professor
**Donnelly, Gabrielle**, BA (Alberta), MA (Dalhousie), PhD (CIIS, San Francisco), Associate Professor
**Noreiga-Mundaroy, Alicia**, BEd, (UNB), MEd (UNB), PhD (UNB), Assistant Professor
**Sweatman, Mary**, BRMH (Acadia), Bed (Trent), MA (Dalhousie), PhD (Acadia), Associate Professor

**School of Education**
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**Aylward, M. Lynn**, BSc (Dalhousie), BEd (Acadia), MEd (OISE, Toronto), PhD (South Australia), Professor
**Brenton, Kelly,** BSc, BEd, MEd (Memorial), PsyD (California Southern), Assistant Professor
**Dempsey, Natalie**, BA, (Trent), BEd (Trent), MEd (OISE, Toronto), Lecturer
**MacKinnon, Gregory**, BSc (UNB), BEd (Dalhousie), MEd (UNB), PhD (Waterloo), Professor
**Morrison, Martin**, BA, BEd (MSVU), MEd (MSVU), PhD (MSVU), Associate Professor
**Munroe-Anderson, Késa**, BA (Acadia), MA (Acadia), MEd (MSVU), PhD (MSVU), Associate Professor
**Rahal, Ahlam**, BA (Max Stern Yezreel Valley College), MA (Max Stern Yezreel Valley College), PhD (McGill), Assistant Professor
**Surette, Tanya E**., BA (Lethbridge), MOC (Gonzaga), PhD (Calgary), Associate Professor
**Tinkham, Jennifer**, BA (UNB), BEd (Acadia), MEd (SFU), PhD (Alberta), Associate Professor
**Toope, Deborah,** BEd (Memorial), BSpEd (Memorial), MEd (Memorial), PhD (South Australia), Assistant Professor
**Van Zoost, Steven**, BA (Mt. Allison), BEd (Mt. Allison), MEd (Acadia), PhD (South-Australia), Assistant Professor

**School of Kinesiology**
**Bremer, Emily**, BHSc, MHSc (Ontario Tech University), PhD (McMaster), PDF (Toronto)**,** Canada Research Chair, Assistant Professor
**Bohunicky, Sarah,** BKIN (Manitoba)**,** MSc (AT) (Manitoba), CAT(C), Instructor
**Clark, Marianne,** BASc (University of Guelph), MA (University of Alberta), PhD (University of Alberta), Assistant Professor
**Dodge, Ann M**., BPE (Acadia), MPE (New Brunswick), Lecturer
**Fowles, Jonathon**, BSc (Victoria), MSc (McMaster), PhD (Waterloo), FCSEP, CSEP-CEP, Professor
**Hall, Chelsey,** BSc (UPEI)**,** MSc (Dalhousie), Instructor
**Holt, Jason**, BAH (Acadia), MA (Dalhousie), PhD (Western), Professor
**Kendall, Karen, D,** BSc (AT) (Concordia), MKin (Calgary), PhD (Calgary), Grad Cert Academic Practice (Queensland University of Technology), CSEP-CEP, CAT(C), ESSAM-AEP, Associate Professor
**King, Colin**, BKin (Memorial), BAHSc (AT) (Sheridan), MEd (Memorial), PhD (Acadia), CAT(C), Professor
**Kruisselbrink, L. Darren**, BA (Alberta), MA, PhD (Victoria), Professor and Director
**Landry, Scott**, CAS, BScH (Acadia), BEng, PhD (Dalhousie), PDF (Calgary), Professor
**Lattimer, Lauren**, BSc (Utah), MSc (Indiana State), PhD (Saskatchewan), CAT(C), ATC, Associate Professor
**Mackinnon, Sarah,** BScH (Acadia)**,** BSc (AT) (Concordia), CAT(C), Instructor
**Murphy, René J.L.**, BPHE, MA (Laurentian), PhD (Montreal), PDF (University of Arkansas for Medical Sciences), Professor
**Oliver, Justin,** BKIN (Acadia), B.Ed (St. Francis Xavier), M.Ed (St. Francis Xavier), Instructor
**O'Neill, Carley,** BKinH (Acadia), MHSc, PhD (University of Ontario Institute of Technology), PDF (Ottawa Heart Institute), Assistant Professor
**Seaman, Roxanne**, BPE (Acadia), MPE (Memorial), PhD (Texas Woman's), Professor
**Shields, Chris**, BSc (Dalhousie), MSc (Calgary), PhD (Waterloo), PDF (Saskatchewan), Professor
**Vierimaa, Matthew**, BSc, MSc, PhD (Queen's), Associate Professor
**Wentzell, Janna**, BPE (Acadia), MSc (Indiana), DSocSci (Royal Roads), CSEP-CEP, AT(C), Instructor

**School of Music**
**Adam, Mark**, BMus (Calgary), MMus (Toronto), Professor
**Boyd, Michelle**, BMus (Acadia), ARCT, MA, PhD (Toronto), Associate Professor
**Charke, Derek**, BMus (North Texas), MMus & Diploma (RAM), MMus & PhD (SUNY Buffalo), Professor
**Cormier, Eugene**, BMus (Acadia), Instructor
**D'Amato, Nicholas**, BA (Dayton), Instructor
**DeBorba, Tristan**, BMus (Toronto), MMus (British Columbia), DMA (Toronto), Associate Professor
**Hopkins, Mark**, BMus (Toronto), BEd (Western), MMus (Calgary.), DMA (New England Conservatory), Professor
**Keech, Kristina**, BMus (Acadia), MMus & PhD (McGill), Assistant Professor
**Lauzon, Paul,** BA (New Brunswick), CMT (Emmanuel College), MMT (Southern Methodist), MTA (Music Therapist Accredited), Associate Professor
**Naylor, Steven**, BA and BIS (Waterloo), PhD (Birmingham), Adjunct Professor
**Rockwell, Paula**, BMus (Acadia), Artist Diploma with Honours (Toronto), Instructor
**Rushton, Christianne**, BMus (Acadia), MMus and Prof. Diploma (Manhattan School), Artist Diploma (Juilliard), DMA (SUNY Stony Brook), Professor and Director
**Shorley, Ken**, BFA (York), Instructor
**Torbert, Jeffrey**, BMus (Dalhousie), Instructor

## Faculty of Pure and Applied Science

**Office of The Dean of Pure and Applied Science**

**Hooper, Jeff**, BScH, MSc (Windsor), PhD (McMaster), Professor and Dean
**Sypher, Mary-Jane**, Assistant to the Dean of Science

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# INDEX


About Acadia ..... 7
Absence Policy ..... 37
Academic Advice ..... 32
Academic Integrity ..... 44
Academic Standing ..... 42
  Bachelor of Education ..... 43
  Graduate ..... 43
  Undergraduate ..... 42
Academic Success and Support Program ..... 42, 290
Acadia Credentials
  Graduate ..... 247
  Undergraduate ..... 48
Acadia Divinity College ..... 55
  Listing of Faculty Members ..... 301
Acadia Students' Union ..... 290
  Health - Dental & Medical ..... 290
Accessible Learning ..... 291
Administrative Staff ..... 302
Admission ..... 9
  Acadia Divinity College ..... 16
  Bachelor of Education ..... 12
  Canadian Immigration Regulations ..... 16
  Graduate Studies Programs ..... 14
  Online Courses ..... 16
  PLAR ..... 12
  Summer Courses ..... 16
  Undergraduate Programs ..... 9
Aegrotat Standing ..... 41
Alumni Relations ..... 291
American Studies ..... 56
Appeals
  Academic Regulations ..... 39
  Bachelor of Education Program ..... 43
  Graduate ..... 41
Applied Bioscience ..... 56
Applied Geomatics
  Graduate Courses ..... 281
  Graduate Program ..... 250
Applied Science
  Courses ..... 120
  Programs ..... 57
Art ..... 56
  Courses ..... 121
Assessment and Evaluation ..... 45
Atlantic Canadian Studies ..... 58
Auditing Courses ..... 34
Biology
  Graduate Courses ..... 269
  Graduate Program ..... 251
  Undergraduate Courses ..... 123
  Undergraduate Programs ..... 58
Biotechnology ..... 60
  Courses ..... 129
Board of Governors ..... 303
Bookstore/Lumber Yard ..... 291
Business Administration
  Courses ..... 130
  Programs ..... 60
Calendar Dates ..... 5
Canadian Studies ..... 64
Career Services ..... 292
Centre for Teaching and Learning Excellence ..... 292
Chaplaincy ..... 292
Chemistry
  Graduate Courses ..... 269
  Graduate Program ..... 252
  Undergraduate Courses ..... 137
  Undergraduate Programs ..... 65
Classical Studies ..... 67
  Classics Courses ..... 141
  Greek Courses ..... 178
  Latin Courses ..... 198
Classics
  Courses ..... 141
Communication
  Courses ..... 143
Community Development
  Graduate Courses ..... 270
  Graduate Program ..... 253
  Undergraduate Courses ..... 144
  Undergraduate Programs ..... 68
Comparative Religion ..... 70
  Courses ..... 147
Complaints in Academic Matters - Procedures ..... 46
Computer Science
  Graduate Courses ..... 270
  Graduate Program ..... 253
  Undergraduate Courses ..... 148
  Undergraduate Programs ..... 70
Co-operative Education ..... 35
  Graduate Courses ..... 270
  in Science Programs ..... 55
  in the Arts ..... 50
  In the BBA ..... 51
  Undergraduate Courses ..... 151
Counselling Centre ..... 290
Course Descriptions
  Graduate ..... 269
  Undergraduate ..... 120
Cultural Studies ..... 73
Dean's List Scholar ..... 41
Definitions ..... 288
Degree Programs
  Graduate ..... 247
  Undergraduate ..... 48
Degree Requirements ..... 48
  Graduate ..... 250
  Residency ..... 39
  Undergraduate ..... 39
Designations ..... 41
Diaspora Studies ..... 74
Dismissal ..... 42
  Academic Dismissal ..... 42
  Bachelor of Education Program ..... 43
  Graduate Programs ..... 43
Economics
  Courses ..... 151
  Programs ..... 74
Education
  Bachelor of Education Courses ..... 155
  Bachelor of Education Programs ..... 76
  Graduate Education Courses ..... 273
  Master of Education Programs ..... 254
  PhD in Educational Studies Program ..... 258
English
  Graduate Courses ..... 279
  Graduate Program ..... 260
  Undergraduate Courses ..... 161
  Undergraduate Programs ..... 78
Environmental and Sustainability Studies (ESST)
  Courses ..... 169
  Programs ..... 79
Environmental Geoscience
  Programs ..... 81

Environmental Science
Graduate Courses ..... 272
Graduate Program ..... 261
Undergraduate Courses ..... 168
Undergraduate Programs ..... 82
Ethnocultural Diversity Studies ..... 83
Examinations ..... 45
Re-Read Procedure ..... 46
Special Examinations ..... 46
Exchange Program ..... 292
Faculty and Staff ..... 296
Faculty of Arts ..... 48
Arts Core ..... 49
Degree Requirements ..... 49
Heads and Directors ..... 48
List of Faculty Members ..... 296
Faculty of Professional Studies ..... 50
Heads and Directors ..... 50
List of Faculty Members ..... 297
Programs ..... 50
Faculty of Pure and Applied Science ..... 51
Degree Requirements ..... 52
Heads and Directors ..... 51
List of Faculty Members ..... 299
Options
Actuarial Science ..... 53
Bachelor of Arts ..... 54
Biochemistry ..... 53
Data Science ..... 54
Health Sciences ..... 54
Neuroscience ..... 54
Science and Business of Beverage ..... 54
Science and Business of Biopharma ..... 54
Fees ..... 22
Acadia Students' Union ..... 25
Health and Dental ..... 26
Other ..... 25
Residence ..... 27
Tuition
Graduate ..... 24
Undergraduate ..... 22
Withdrawal and Cancellation ..... 27
Final Year Grade Exemption ..... 41
French Studies
Courses ..... 170
Programs ..... 84
Geology
Graduate Courses ..... 279
Graduate Program ..... 263
Undergraduate Courses ..... 174
Undergraduate Programs ..... 86
German Studies
Courses ..... 177
Programs ..... 87
Grades ..... 44
Grading System ..... 44
Release of Grades to Students ..... 45
Graduate Studies ..... 247
Courses ..... 269
Program Coordinators ..... 247
Programs ..... 247
Graduation ..... 41
Greek
Courses ..... 178
Health Sciences and Humanities ..... 89
Healthy Campus Programming ..... 292
History
Courses ..... 179
Programs ..... 89
Honours Conversion ..... 40
Identity Policy ..... 31
Income Tax Documents ..... 29
Integrated BSc/BED Programs ..... 99
Interdisciplinary Studies
Graduate Courses ..... 281
Undergraduate Courses ..... 187
International Development Studies ..... 91
International Exchange
French Studies ..... 85
German Studies ..... 88
Spanish Studies ..... 116
International Students
Services for ..... 295
Wong International Centre ..... 295
Judicial Policies and Discipline ..... 47
Kinesiology
Graduate Courses ..... 281
Graduate Program ..... 264
Undergraduate Courses ..... 190
Undergraduate Programs ..... 91
Language
Courses ..... 198
Latin
Courses ..... 198
Law and Society
Courses ..... 199
Programs ..... 95
Letter of Permission ..... 39
Library
Services ..... 293
Staff ..... 302
Material and Visual Culture ..... 96
Mathematics and Statistics
Graduate Courses ..... 282
Graduate Program ..... 264
Integrated program with BEd ..... 99
Undergraduate Courses ..... 200
Undergraduate Programs ..... 97
Mi'kmaw
Courses ..... 206
Minors ..... 40
Multidisciplinary Minor
American Studies ..... 56
Atlantic Canadian Studies ..... 58
Comparative Religion ..... 70
Cultural Studies ..... 73
Diaspora Studies ..... 74
Ethnocultural Diversity Studies ..... 83
Health Sciences and Humanities ..... 89
International Development Studies ..... 91
Material and Visual Culture ..... 96
Science, Technology and Ethics ..... 114
Women's and Gender Studies ..... 119
World Literatures ..... 119
Multiple Course Attempts ..... 40
Music
Courses ..... 206
Programs ..... 101
Nutrition and Dietetics
Courses ..... 215
Programs ..... 104
Open Acadia ..... 35, 293
Overloads ..... 33
Payment of Fees ..... 22
Philosophy
Courses ..... 218
Programs ..... 107
Physics
Courses ..... 221
Programs ..... 108
Political Science
Graduate Courses ..... 284
Graduate Program ..... 265

Politics
Undergraduate Courses....224
Undergraduate Programs....109
Prerequisites, Corequisites, Antirequisites....33
Prior Learning Assessment and Recognition (PLAR)....39
Probation....42
Professores Emeriti....301
Program Changes....37
Programs, Degree Requirements, and Courses
Faculty of Theology (Acadia Divinity College)....55
Graduate....250
Undergraduate....48
Psychology
Graduate Courses....285
Graduate Program....265
Undergraduate Courses....231
Undergraduate Program....111
Record Changes....31
Records & Registration....30
Records Retention Policy....31
Registrar's Office....293
Registration....31
Academic Advice....32
Academic Levels....31
Changes and Withdrawals....36
Graduate....37
Undergraduate....36
Course Load....33
Fall/Winter....33
Online Courses....33
Summer....33
Course Numbering....32
Extensions for Online Courses....40
Graduate....34
Online Learning....36
Procedures....32
Summer....36
Undergraduate....31
Regulations and Policies
Graduate....41
Undergraduate....39
Research at Acadia....248
Research Centres....249
Residence Life....293
Application....16
Fees....27
Meal Plans....27
Safety and Security....294
Scholarships and Financial Aid....18, 294
Graduate....19
Undergraduate....18
Science, Technology and Ethics....114
Second Degree Requirements....40
Social and Political Thought
Graduate Courses....287
Graduate Program....267
Sociology
Graduate Courses....287
Graduate Program....267
Undergraduate Courses....234
Undergraduate Programs....114
Spanish Studies
Courses....240
Programs....116
Student Accounts....294
Student Health Services....294
Student Records....30
Information Contained in....30
Release of Information....30
Transcripts....31
Technology Services....295
Tests/Major Assignments
Scheduling of....45
Theatre
Courses....242
Programs....117
Time Limits
Graduate Programs....42
Undergraduate Programs....40
Transcripts....31
Transfer Credits
Graduate....41
Letter of Permission....39
PLAR....39
Undergraduate....39
University Resources....290
University Scholar....41
Varsity Athletics....290
Withdrawal and Cancellation
Course Withdrawal Policy....36
Fees
Graduate....28
Undergraduate....27
Online Courses....28
Online Course Withdrawal Policy....37
Online Courses....28
Summer Courses....28
Withdrawal from the University Policy....37
Women's and Gender Studies
Courses....244
Programs....118
World Literatures....119