



UCalgary

# U Calgary 2024-2025 Calendar

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## A. Undergraduate Admissions

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  - A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents
  - A.4 General Admission Procedures
  - A.5 Undergraduate Degree Admission Requirements
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All enquiries relating to admission should be directed as follows:

**Undergraduate Admissions**

2nd Floor Hunter Student Commons

2500 University Drive N.W.

Calgary, Alberta

T2N 1N4

**Telephone:** 403.210.7625

**Email:** [ucalgary.ca/future-students/undergraduate/contact](https://ucalgary.ca/future-students/undergraduate/contact)

**Web:** [ucalgary.ca/future-students](https://ucalgary.ca/future-students)

**Architecture, Planning and Landscape Admissions**

2500 University Drive N.W.

Calgary, Alberta

T2N 1N4

**Telephone:** 403.220.4388

**Web:** [3.1 Admissions](#)

**Medical Doctor Program - Cumming School of Medicine**

Room 212 - Health Sciences Centre

3330 Hospital Drive N.W.

Calgary, Alberta

T2N 1N4

**Telephone:** 403.220.4262

**Email:** [ucmedapp@ucalgary.ca](mailto:ucmedapp@ucalgary.ca)

**Web:** [5.3 Admissions](#)

**Graduate Studies Admissions**

Earth Sciences 1010

2500 University Drive N.W.

Calgary, Alberta

T2N 1N4

**Telephone:** 403.220.4938

**Email:** [graduate@ucalgary.ca](mailto:graduate@ucalgary.ca)

**Web:** [G.A. Graduate Admissions](#)

## Law Admissions

Murray Fraser Hall  
2500 University Drive N.W.  
Calgary, Alberta  
T2N 1N4

Telephone: 403.220.4155

Email: [law@ucalgary.ca](mailto:law@ucalgary.ca)

Web: [4. Faculty of Law Admissions](#)

## Veterinary Medicine Admissions

TRW 2D01, 3280 Hospital Drive N.W.  
Calgary, Alberta  
T2N 4Z6

Telephone: 403.220.8699

Email: [vet.admissions@ucalgary.ca](mailto:veter.admissions@ucalgary.ca)

Web: [3.1 Admissions](#)

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## B. Registration for Undergraduate Students

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Students are responsible for adhering to the regulations for their program and ensuring the accuracy and completeness of their registration based on the regulations outlined in this Calendar. Students complete course registration through their Student Centre using Academic Requirements and the schedule builder available at [my.ucalgary.ca](http://my.ucalgary.ca).

Students should ensure that courses selected are appropriate to their degree program, including the number of courses to complete requirements for graduation. Particular attention should be exercised with the sequence in which courses are taken to meet any prerequisite or co-requisite requirements.

Students should obtain the advice of their faculty in selecting courses prior to registration; however, the student is ultimately responsible for the correct course selection. Faculties reserve the right to cancel a student's registration in a course if the student fails to meet a stated requirement or when a course is not appropriate to the degree program in which the student is registered.

The University of Calgary reserves the right, published requirements notwithstanding, to refuse registration in courses, on the basis of a student's overall academic records or on the basis of grounds that, in the opinion of the University, are reasonable in the circumstances.

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### B.1 Registration Procedures

### B.2 Changes of Courses or Course Sections

### B.3 Course Restrictions

### B.4 Registration in Courses Offered at Different Degree Levels (Graduate vs. Undergraduate)

### B.5 Repeating Courses

### B.6 Student Accommodations

### B.7 Withholds

### B.8 Course Load

### B.9 Schedule of Classes

### B.10 Block Week and Non-Standard Schedules

### B.11 Full-time and Part-Time Status

### B.12 Residency Requirements, Letters of Permission and Leaves of Absence

### B.13 Credit in Courses by Special Assessment (Challenge Examinations)

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### B.15 Registration Exemption Requests

### B.16 Personal Information

### B.17 Changes in Regulations

### B.18 Academic Turnaround Program (ATP)

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## C. Open Studies Registration, Registration Standing and Appeals

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The Office of the Registrar administers registration in the Open Studies category. Students in this registration category are not admitted to a program leading to degree, diploma or certificate.

This section only applies to students who are registered as a non-degree holder or degree holder. For information on exchange or visiting, see the appropriate faculty section.

- C.1 Open Studies Registration
  - C.2 Open Studies Academic Performance
  - C.3 Open Studies Appeal Process
  - C.4 Open Studies Student Misconduct
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## D. Change of Faculty or Program

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Change of Faculty or Program allows current undergraduate students to request a change to their academic program. These changes may include changing, adding or removing: major(s), minor(s), embedded certificates, concentration, honours, or combined degree.

Change of Program decisions are made by the admitting faculty. For Change of Program requirements, student should check the admitting faculty section of this Calendar, and with the faculty advising office. Some programs may have supplemental requirements (e.g. audition, portfolio, supplemental application) with separate deadlines.

The University of Calgary acknowledges and respects the rich diversity of learners, their communities, cultures and traditions, and their aspirations and abilities. To ensure equitable access, Change of Program requests from students who self-identify as Indigenous (First Nations, Métis, or Inuit) may receive additional consideration under an Indigenous process, if needed, and provided the faculty allows it. Students whose Change of Program is approved through an Indigenous process will be required to provide proof of Indigenous identity prior to course registration.

Change of Program approval is competitive and not guaranteed. Students whose Change of Program request is not accepted will remain in their current faculty or program.

Requests for a Change of Program are typically available from October 1 for most programs, and July 1 for the Faculty of Nursing (Transfer and Degree Holder Routes) January entry. Requests may be made online through the Student Centre. Results of Change of Program requests will also be visible in the Student Centre at [my.ucalgary.ca](https://my.ucalgary.ca).

Deadlines to submit Change of Program requests are as follows:

**Fall Term Change:**

February 1: All programs

Note: The Bachelor of Social Work program does not accept Change of Program requests. Current University of Calgary students must submit the undergraduate application for admission to the Bachelor of Social Work program. Social Work students request changes to their program, including transfers between locations, by contacting Student Services in the Faculty of Social Work.

**Winter Term Change:** September 1: Faculty of Nursing (Transfer and Degree Holder Routes only)

**Summer Intersession Change:**

February 1: Werklund School of Education (Four-Year BEd Community-Based Program)

Note: Change of Program requests to the Four-Year BEd Community-Based Program can be made by contacting the Werklund School of Education, Undergraduate Programs in Education Office.

Students seeking admission to the School of Architecture, Planning and Landscape, Cumming School of Medicine (MD program), Faculty of Law, and Faculty of Veterinary Medicine are advised to contact the faculty/school directly for admission procedures.

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## E. Course Information

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- E.1 Course Outlines
  - E.2 Writing Across the Curriculum
  - E.3 Attendance
  - E.4 Religious/Spiritual Observance
  - E.5 Ethics of Human Studies
  - E.6 Recording of Lectures
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## F. Academic Standing

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- F.1 Grading System and Transcripts
  - F.2 Symbols
  - F.3 Academic Notations
  - F.4 Grade Point Average
  - F.5 Transcripts
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## G. Academic Assessments and Examinations

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Academic Assessments and Examinations may be made on pedagogical grounds with the approval of the Dean or designate. All approved exemptions must be noted in the course outline.

The definitions below are included for the purpose of providing more clarity to Section G.

**Assessment** is a general term referring to the different processes used to provide opportunities for students to demonstrate their learning in a course, which may include, but are not limited to timed quizzes, exams, tests, labs, papers, essays, projects, presentations, oral exam, creative products, and performances.

**Final Examination** refers to timed assessments scheduled during the final examination period of an academic term. Exemptions to the regulations in section G.

### Rights to Accommodation

- a. Students requiring an accommodation related to disability or a medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at: [ucalgary.ca/legal-services/university-policies-procedures/student-accommodation-policy](https://ucalgary.ca/legal-services/university-policies-procedures/student-accommodation-policy).
- b. Students who require an accommodation on a protected ground other than disability should communicate this need, in writing, to their instructor or the appropriate department/faculty designated contact person (e.g., Associate Dean, Department Head).

### Assessment Practices

Effective assessment practices require that students have multiple opportunities to demonstrate their learning and receive feedback. This principle underlies the following regulations:

- a. Prior to the withdraw deadline, students must have received in:
  - (1) graded courses: grades for a minimum of 30 per cent of the course grade; or
  - (2) non-graded courses: formal feedback based on their performance in the course.
  - (3) clinical or professional practice-based courses in academic programs leading to professional designation, registration and/or licensing, regardless of their duration, student learning may be formally evaluated at the end of the learning experience, as long as effective formative feedback processes are in place at intervals during the course.

b. Assessments carried out during the last 14 calendar days of classes in Fall/Winter Terms and the last 7 calendar days in Spring/Summer Intersessions (as defined in the Academic Schedule) may not total more than 15 per cent of the final grade, except in the case of laboratory or oral testing, presentations, or summative projects/papers.

c. The final exam may not count for more than 50 per cent of the final grade, except in:

(1) the cases of clinical or professional practice-based courses in academic programs leading to professional designation, registration and/or licensing; or

(2) in situations outlined in section [G.1.2 In-Course Assessments and Absences](#).

d. Regardless of the format of a course, any external accreditation assessment requirements must be met in the evaluation plan for a course.

### Assessment Modalities

a. Courses delivered in-person or in a blended modality: assessments may be delivered in the modality format as approved in the course outline.

b. Courses delivered in their entirety in an online modality: final examinations must be scheduled online.

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G.1 Assessment Conduct and Eligibility

G.2 In-Course Assessments

G.3 Final Assessments

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## H. Graduation

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H.1 Applying to Graduate

H.2 Names on Parchment

H.3 Parchment Information

H.4 Double Majors

H.5 Ceremony Attendance

H.6 Parchment Reprints

H.7 Posthumous Degrees

H.8 Convocation

H.9 Academic Dress

H.10 Official Degrees/Diplomas/Certificates

H.11 Honorary Degrees

H.12 The Order of the University of Calgary

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## I. Reappraisal of Graded Term Work and Academic Assessments (final grades)

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The University acknowledges that there are instances when a student may wish to challenge University decisions about graded term work or academic assessments (final grades). The following guidelines and procedures deal with those occasions.

The definition for the term “graded term work” is set out in [I.2 Reappraisal of Graded Term Work](#).

The term “academic assessment” means the determination of a student’s final level of achievement in a specific course, and includes grades, credit or fail designations, and, if specified in a course outline, assessments of all aspects of professional behaviour.

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I.1 General Principles

I.2 Reappraisal of Graded Term Work

I.3 Reappraisal of Academic Assessments (Final Grades)

I.4 Graded Term Work and Academic Assessment (final grade) Appeals

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## J. Student Appeals to the University Appeals Committee and University Appeals Tribunal

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In June, 2018, the General Faculties Council approved the [Student Misconduct and Academic Appeals Policy](#), [Faculty Appeals Policy and Procedure](#), [University Appeals Committee Procedure](#), and [University Appeals Tribunal Procedure](#). All appeals relating to academic assessments, academic progression matters, and student academic misconduct and student non-academic misconduct, as defined in the Student Misconduct and Academic Appeals Policy, will be managed under this policy effective January 1, 2019.

For process information and resources regarding appeals, please see the Student Appeals Office website at: [live-secretariat.ucalgary.ca/secretariat/student-appeals](https://live-secretariat.ucalgary.ca/secretariat/student-appeals).

Students may obtain information and support with understanding the appeals process and submitting an appeal from the Student Ombuds Office. For more information, visit [ucalgary.ca/student-services/ombuds](https://ucalgary.ca/student-services/ombuds).

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### J.1 Continued Registration While Under Appeal

A student appealing a suspension or expulsion may register for and attend classes, and participate in academic activities, pending the outcome of their appeal. Any restrictions levied as outlined in section 4.4 of the Student Academic Misconduct Procedures ([ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Academic-Misconduct-Procedure.pdf](https://ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Academic-Misconduct-Procedure.pdf)) will continue pending the outcome of an appeal, unless the relevant faculty determines that it would be appropriate to remove them sooner. This decision is in the sole discretion of the faculty and may not be appealed.

A student appealing an academic assessment or academic progression decision to the University Appeals Committee may register for and attend classes, and participate in academic activities, pending the outcome of their appeal. For specific faculty restrictions please refer to the faculty regulations sections of this Calendar.

Students appealing an academic progression matter to the University Appeals Tribunal are not permitted to remain registered.

If an appeal is unsuccessful the original date of suspension, required to withdraw or expulsion may take effect. If the appeal panel decides that the original date is appropriate for a suspension, required to withdraw or expulsion to take effect, the student will not receive credit for academic activities completed and tuition fees will be credited back to the student's account. General fees cannot be credited back to the student account.

If the appeal is upheld, the student will remain registered.

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## K. Integrity and Conduct

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The University of Calgary foundational commitments expressed in the Eyes High Strategy are to:

- sharpen focus on research and scholarship
- enrich the quality and breadth of learning
- integrate the university with the community

The university seeks to create and maintain a positive and productive learning, working and living environment; an environment in which there is:

- respect for the dignity of all
- fair treatment of individuals

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- respect for academic freedom
- respect for university resources and the property of individuals

When representing the university, employees, academic staff members, appointees, students and volunteer appointees are required to act:

- ethically, honestly and with integrity; and
- in accordance with the principles of fairness, good faith, and respect

All members of the University community have a responsibility to familiarize themselves with this Statement on Principles of Conduct and to comply with University of Calgary policies on conduct including:

Code of Conduct: [ucalgary.ca/legal-services/university-policies-procedures/code-conduct](https://ucalgary.ca/legal-services/university-policies-procedures/code-conduct).

Student Non-Academic Misconduct Policy and Procedures:

[ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-policy](https://ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-policy).

[ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-procedure](https://ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-procedure).

[ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Non-Academic-Misconduct-Procedure.pdf?#AppendixA](https://ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Non-Academic-Misconduct-Procedure.pdf?#AppendixA).

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[K.1 Other Impermissible Conduct](#)

[K.2 Student Appeals](#)

[K.3 Statement on Academic Integrity](#)

[K.4 Research Integrity](#)

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## L. Free Expression

All members of the university have the right of free expression, which means the freedom to investigate, comment, listen, gather, challenge and critique subject to the law and, on our campuses, to university policies and procedures related to the functioning of the university.

In 2019, the University of Calgary published a statement committed to the principles of free expression: [ucalgary.ca/provost/sites/default/files/StatementonFreeExpression.pdf](https://ucalgary.ca/provost/sites/default/files/StatementonFreeExpression.pdf).

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## M. Additional Regulations

### M.1. Supporting Documentation

Students may be asked to provide supporting documentation for an exemption/special request. This may include, but is not limited to, a prolonged absence from a course where participation is required, a missed course assessment, a deferred examination, or an appeal. Students are encouraged to submit documentation that will support their situation. Supporting documentation may be dependent on the reason noted in their personal statement/explanation provided to explain their situation. This could be medical certificate/documentation, references, police reports, invitation letter, or a statutory declaration, etc. The decision to provide supporting documentation that best suits the situation is at the discretion of the student. Students cannot be required to provide specific supporting documentation, such as a medical note.

Falsification of any supporting documentation will be taken very seriously and may result in disciplinary action through the Academic Discipline regulations or the Student Non-Academic Misconduct policy.

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## N. Student Communication and Responsibilities

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The University of Calgary's primary method to communicate with students is electronic communications. This includes email and Student Centre notifications.

University of Calgary students are provided with a UCalgary email address. Official notifications and communications from the University of Calgary will only be sent to the UCalgary email address. Students are responsible for ensuring they set up their UCalgary email prior to the start of their first term at the University of Calgary and are accountable for reading messages sent to their UCalgary email account, or posted on their Student Centre, on a regular basis to ensure important information is not missed.

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## G.A. Graduate Admissions

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There is no general right of admission to Graduate Programs. Each department determines whether to recommend to the Faculty of Graduate Studies the admission of a particular applicant based not only on the applicant's credentials but also on the availability of resources for supervision and research, departmental research objectives, program balance, and other such considerations. Admissions decisions are not subject to appeal.

### General Admission Procedures

Any student who wishes to become a registered student of the University must complete an online Application for Admission, pay the application fee, submit required documentation to demonstrate they meet the admission requirements, receive an offer of admission and pay the Admission Deposit (see [G.A.5 Offer of Admission](#)), if required, before they are permitted to register in courses.

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[G.A.1 Qualifications](#)

[G.A.2 Application for Admission](#)

[G.A.3 Admission Categories](#)

[G.A.4 Retention of Student Records](#)

[G.A.5 Offer of Admission](#)

[G.A.6 Advanced Credit and Course Exemption](#)

[G.A.7 Laddered Pathway](#)

[G.A.8 Readmission](#)

[G.A.9 Reactivation](#)

## Graduate Regulation Summary

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The general regulations apply to all graduate students. Regulations specific to particular degree programs are outlined in the individual program, found in the [Programs](#) section.

Notices of any changes in regulations are available from the program office. It is the student's responsibility to be familiar with the regulations and deadlines of the Faculty of Graduate Studies as stated in this Calendar, in their graduate program's Handbook and, for thesis-based students, in the Thesis Guidelines ([grad.ucalgary.ca/current-students/thesis-based-students/thesis](http://grad.ucalgary.ca/current-students/thesis-based-students/thesis)).

### Notes:

- Students are advised to consult with their Graduate Program Director and Graduate Program Administrator regarding all aspects of their graduate programs.
- All graduate students registering or re-registering must contact their supervisors and programs to discuss their programs of study within the first two weeks of their annual registration month.
- This Calendar provides a listing of all graduate courses. Course offerings will be determined annually and are subject to the availability of instructors and student interest and in some instances are only offered in alternate years. Students should consult a current timetable before registering.

[G.D.1 Registration](#)

[G.D.2 Transfer Credit](#)

[G.D.3 Student Status](#)

[G.D.4 Program Transfers](#)

[G.D.5 Withdrawals](#)

[G.D.6 Time Limits](#)

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## G.D.1 Graduate Registration

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### G.D.1.1 Annual Registration For Thesis-Based Students

All thesis-based graduate students must maintain continuous annual registration for a twelve-month period and pay the assessed fees until all degree requirements have been completed. Students must initialize their registration annually, at the time of anniversary of their first registration term, and before the fee payment deadline for that term stated in the academic schedule.

A thesis-based student who does not initialize their annual registration by the fee payment deadline at the time of anniversary is not eligible to participate in university activities leading to a degree including conducting research in a laboratory, teaching and receiving paid support, or registering and attending a course. Students will be required to withdraw from their program for failure to register. This will be recorded on the student record as a required withdrawal. A student who has been withdrawn for failure to register will be required to apply and be readmitted to continue in their graduate program. Readmission is not guaranteed.

### G.D.1.2 Term-Based Registration For Course-Based Students

Course-based students' status as full- or part-time is determined by the number of units they register each term (see section [G.D.3.2 Course-based Programs](#)). The Spring and Summer terms are a scheduled break for students in course-based graduate programs, unless otherwise stated in a program's calendar entry.

Course-based students must register in courses according to the requirements of their program and pay the appropriate fees every term in which they are taking courses until all credential requirements have been completed. Normally, a continuing course-based student who does not enrol in courses outside of scheduled breaks, or without being on an approved leave of absence (see section [G.D.7 Leave of Absence](#)), for a period exceeding 12 consecutive months will be required to withdraw for failure to register. New students who do not enrol in their first academic term will have their admission cancelled.

In some programs, failure to register continuously (i.e., from the first registration term until the credential requirements have been completed) may result in withdrawal or disruption to program completion times. Students should check their program requirements regarding the implications of not registering in courses for a given term outside of scheduled breaks or an approved leave of absence.

A course-based student will not participate in University activities for their credential, such as attending courses, conducting research in a laboratory, teaching, or receiving paid support, unless they are registered in courses. A student who has been withdrawn for failure to register will be required to apply and be readmitted to continue in their graduate program. Readmission is not guaranteed.

## G.D.1.3 Concurrent Program Enrolment

Concurrent program enrolment refers to enrolment in two University of Calgary credentials (certificate, diploma and/or degree) at the same time. Concurrent enrolment in two graduate degrees is not permitted, with the exception of designated **Graduate Combined Degree Programs**, and the final step of a **laddered pathway Master's degree**.

- **Regular** students are eligible to apply for concurrent program enrolment. Qualifying, visiting, exchange, and joint degree students, as well as those who hold conditional admission for language upgrading, are not eligible.
- Thesis-based students cannot hold concurrent enrolment in the first term of a graduate program. Prior to applying for admission to a second program, students are required to obtain permission from their current program. Permission to apply for a second program does not guarantee admission to that program.
- **Tuition fees** are assessed separately for concurrent programs. **General Fees** are not duplicated. A student's registration anniversary (and therefore the assessment of annual general fees) is determined by the first program in which they registered.
- Courses completed in one credential cannot be used for credit toward another course-based credential. In rare cases, exceptions may be granted for credit towards a thesis-based degree.
- **Academic Regulations** apply independently for each program.
- A student must be in good academic standing in their current program to apply for concurrent enrolment in a second program.
- Students must have active registration in both programs at the same time. A student is not permitted to take a leave of absence from one program but remain active in the other. Similarly, if a student is subject to suspension or expulsion, registration in both programs is impacted.
- Students need to apply to graduate from each credential and students will receive a parchment for each credential completed. All credentials completed at the University of Calgary are recorded on the transcript.

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## G.D.1.4 Course Selection and Registration

A complete guide to course registration is available online at <https://grad.ucalgary.ca/current-students/registration/course-registration>.

Students should always consult with their graduate program and supervisor, if applicable, concerning course selection. Refer to the deadlines in the **Academic Schedule**.

Following registration, it is the student's responsibility to verify course registration and fee assessment using the Student Centre <https://my.ucalgary.ca>.

For information on Block Week and Non-Standard courses, see **B.10 Block Week and Non-Standard Schedules**.

Course-based students are not normally permitted to register in more than 15 units per term in the Fall and Winter Terms or more than 6 units per term in the Spring and Summer Terms.

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## G.D.1.5 Course Drops & Withdrawals

A graduate student may drop a course in which they are registered via the Student Centre at [my.ucalgary.ca](https://my.ucalgary.ca), any time up to and including the last day to drop a class as outlined in the **Academic Schedule** section of this Calendar. Tuition fees will be refunded and the course will be removed from the student's academic record.

After the drop deadline has passed, a graduate student may withdraw from a course in which they are registered via the Student Centre at [my.ucalgary.ca](https://my.ucalgary.ca), any time up to and including the last day to withdraw from a course as outlined in the **Academic Schedule** section of this Calendar. No tuition fees will be refunded and a 'W' will be recorded for the course on the student's transcript. The withdrawn course continues to count towards the student's unit load for the term. A withdraw ('W') has no impact on a student's GPA. Graduate students are not permitted to withdraw more than once from the same course. A second withdrawal requires the permission of the teaching faculty.

After the withdrawal deadline has passed, the course grade will be entered as earned. Block Week and non-standard courses may have different drop and withdrawal deadlines than what is listed in the Academic Schedule. Students can find drop and

withdrawal deadlines for any course in which they are registered via the Student Centre at [my.ucalgary.ca](https://my.ucalgary.ca).

Students who are unable to complete a course due to an unexpected, uncontrollable circumstance may apply for an Extenuating Circumstances Withdrawal (EW), as described in section B.14.3.

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### G.D.1.6 Auditing Courses

Auditing students participate in classroom activities, except for lab or tutorial components, but do not complete any exam or course assignments nor do they receive a grade for the course(s) they are auditing. Students wishing to audit courses must get permission from their graduate program and complete a Change of Course Registration form, available at <https://grad.ucalgary.ca/current-students/registration/course-registration>.

Audit fees are outlined in [P.4.6](#). Audit fees are non-refundable.

Because there are no grade implications, students are not able to withdraw from courses they are auditing. Audited courses also do not count towards a student's unit load for a given academic term.

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### G.D.1.7 Courses Taken Extra-to-Program

A student in a thesis-based or a course-based program may request to take a course that is extra to their certificate, diploma or degree program(s). The credit for extra-to-program courses will not count toward the current graduate degree, but students should be aware that the course will be included in all grade point average calculations on the transcript.

Registration in any course is subject to departmental approval. For fee regulations for extra-to-program courses, see [P.4.14](#).

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## G.D.2 Graduate Transfer Credit

Students currently registered in a graduate degree program at the University of Calgary may receive credit for one or more courses taken at other recognized institutions, if approved by the graduate program and the Faculty of Graduate Studies.

Program and Faculty of Graduate Studies' approval of these arrangements must be obtained before the courses begins.

Course-based programs: Transfer credit and any advanced credit received upon entrance to the program may not exceed one third of the program or 12 units, whichever is less.

In order to receive transfer credit, students must arrange for official transcripts showing the courses taken and grades achieved to be sent from the other institution to the Faculty of Graduate Studies. Courses for which transfer credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Transfer credit is not granted for courses for which the graded level of performance is equivalent to "B-" or lower.

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## G.D.3 Graduate Student Status

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### G.D.3.1 Thesis-Based Programs

Students registered in thesis-based master's and doctoral programs will be considered full-time unless their program formally offers a part-time option, as noted in the program's calendar entry.

Thesis-based students who wish to change their registration status (from full-time to part-time, or vice versa) require program approval. A change from full-time to part-time registration status in a thesis-based program must be renewed each year. A change from part-time to full-time status will require program confirmation of satisfactory progress for full-time registration. The implications of changes of registration status on general fees assessments are outlined in section [P.2.5](#). Change from full- to part-time status may have an impact on guaranteed funding. Full-time registration in PhD and thesis-based master's programs is not compatible with full-time employment. Students enrolled full-time in these programs must devote sufficient time and effort to

maintain progress and meet milestones in order to maintain their registration and remain eligible for financial support. They must engage fully in their degree program, including coursework, field or laboratory work, and thesis writing. Only professional doctoral programs such as the DBA, DDes, EdD or DN are designed to be compatible with full-time employment.

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### G.D.3.2 Course-Based Programs

Full- and part-time status in course-based credentials is determined each academic term.

#### a) Full-Time Students

Students in course-based credentials (i.e., certificates, diplomas or master's degrees) will be considered full-time if they enrol in 6 units or more per term during each of the Fall and Winter Terms and 3 units or more per term during each of the Spring and Summer Terms.

#### b) Part-Time Students

Students enrolled in course-based credentials (i.e., certificates, diplomas or master's degrees) are considered part-time when they register in fewer than 6 units per term in the Fall and Winter Terms or fewer than 3 units per term in the Spring and Summer Terms.

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## G.D.4 Graduate Program Transfers

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Program transfers normally must take place before a student's third annual registration. Students should consult the supervisor and Graduate Program Director. Current time in program will be credited; course credit is given at the discretion of the program.

**It is the student's responsibility to check the fee implications of the transfer.**

Doctoral students who have transferred from another institution must complete their program's candidacy requirements. Exceptions may be made if the graduate program gives credit for an equivalent requirement successfully completed at another university.

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## G.D.5 Graduate Withdrawals

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A student wishing to withdraw from the Faculty of Graduate Studies should complete a Graduate Withdrawal form, available at <https://grad.ucalgary.ca/current-students/registration/withdrawal>.

Fees for subsequent terms will be cancelled upon withdrawal notification.

When a student withdraws from the Faculty of Graduate Studies, it is the student's responsibility to ensure that all outstanding fees are paid.

After a required withdrawal from a graduate program at the University of Calgary, a student may not apply to another graduate program at the University of Calgary until a year after the final decision to require withdrawal has been made.

Students under review will not be permitted to withdraw during the review process.

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## G.D.6 Graduate Time Limits

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### G.D.6.1 Faculty of Graduate Studies' Time Limits

Students in research- and thesis-based master's programs must complete all degree requirements within four registration years; students in course-based master's programs must complete all degree requirements within six registration years. It is expected that students completing a master's degree on a full-time basis will complete the degree within half the time allowed.

Students enrolled in most certificate and laddered diploma programs must complete each credential within two years. Students who enter directly into a diploma program must complete that credential within four years. The final step of a laddered pathway Master's degree must also be completed within two years.

Students in doctoral programs must complete all degree requirements within six registration years. It is expected that most students will complete requirements within four years.

A student may be required to withdraw for exceeding the maximum time allowed to complete all degree requirements.

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### G.D.6.2 Program-Specific Time Limits

Individual programs may require shorter completion times than the Faculty of Graduate Studies maximum. Check the program's entry for specific details about time limits.

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### G.D.6.3 Program Extensions

If a student needs longer than the regulation time set out in [G.D.6.1](#), an extension to program may be granted by the Faculty of Graduate Studies on the basis of a recommendation from the Graduate Program Director that specifies the grounds for the extension and provides a detailed schedule for the completion of the program.

Program extensions will only be granted to students who require more time to complete their own thesis or coursework and are not designed for the benefit of the supervisor. Extensions will not be granted in situations in which the student has completed the work required for the credential in which they are enrolled.

Forms can be found on the Faculty of Graduate Studies website at: <https://grad.ucalgary.ca/current-students/important-dates-and-resources/forms-and-documents>. If an extension is not approved, a student may be required to withdraw for reaching maximum time in program.

For programs that require shorter completion time than the Faculty of Graduate Studies maximum, requests for extension may be granted by the program.

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### G.D.6.4 Program Extensions for GSA Executive Members

Graduate programs must take the service by GSA Executive members into consideration in assessing the student's progress in the annual progress report. On request, the Faculty of Graduate Studies will grant GSA Executive members extensions to time in program of up to one year per year in office.

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## G.D.7 Graduate Leave of Absence

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A student who is unable to be academically active and productive for a period of time should apply for a leave of absence. Leaves of absence are granted for reasons including, but not limited to, bereavement, care-giving or parental responsibilities, medical requirements, physical or mental wellbeing, military service or political service.

Leaves of absence are typically for a minimum of one term and up to one year. Parental leaves may be granted for up to 18 months. Students are not permitted to take a leave of absence that aligns with the start of their program. Students who are unable to start their program as planned should contact their Graduate Program to inquire about their options.

Except for parental leave, any requests for renewal beyond a year require supporting documentation and are subject to Faculty of Graduate Studies (FGS) approval. The total length of leave time including renewal must not exceed one (1) year for graduate-level certificate and diploma students, two (2) years for master's, and three (3) years for doctoral students.

Students cannot be academically active or productive during a leave of absence. This means that students may not engage in scholarly activity related to their degree. They may not complete coursework, research, academic writing, or take on graduate assistantship assignments while they are on leave. As such, the time on leave does not count as time in program, and a student's maximum completion deadline is adjusted accordingly. During an approved leave of absence, students may be able to defer FGS-administered scholarship funding for up to one year when the award terms of reference allow it. Please contact

[gsaward@ucalgary.ca](mailto:gsaward@ucalgary.ca) to clarify how scholarship funding is affected by a LOA. Students should be aware that supervisory and/or funding arrangements cannot be guaranteed on return from a leave; however, guaranteed minimum funding amounts will be upheld.

Students are not assessed tuition or per-term general fees while on a leave of absence that aligns with the beginning and end of an academic term. If the start and end dates of the leave do not align with that of the term, tuition and per-term general fees will be assessed. Annual general fees will be assessed on the student's registration anniversary term if their leave overlaps this date and ends prior to their next registration anniversary the following year. More information on fee assessments during an approved leave can be found at <https://grad.ucalgary.ca/current-students/registration/leave-absence>.

Leaves of absence can have implications for student loans and immigration status. International students should consult with International Student Services prior to applying for a leave absence. Students on a leave of absence maintain access to student support services, such as the Wellness Centre.

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### Parental Leave

Students on parental leave may be eligible for funding through the Faculty of Graduate Studies. More information can be found at <https://grad.ucalgary.ca/current-students/registration/leave-absence>.

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## G.H Graduate Academic Standing

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G.H.1 Distribution of Grades

G.H.2 Student Standing

G.H.3 Student Progress

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## G.I Language

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Except in certain courses in the language departments, the language of instruction at the University of Calgary is English. Delivery of any University of Calgary program in a language other than English requires approval from the Academic Planning and Priorities Committee.

Theses must be submitted in English, except when explicitly permitted in the program's thesis guidelines and related to the student's program of study.

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## G.J. Graduate Supervision

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### G.J.1 Appointment of Supervisor

**G.J.1.1** Graduate students in thesis-based programs are required to have a supervisor throughout the duration of their program. All members' eligibility to supervise is set out in the University of Calgary [Graduate Student Supervision Policy](#), available at <https://www.ucalgary.ca/legal-services/ucalgarys-policies-and-procedures>.

**G.J.1.2** Postdoctoral scholars are not eligible to serve as supervisors.

**G.J.1.3** At time of admission, a supervisor or an interim supervisor must be appointed.

**G.J.1.4** In consultation with the student and the proposed supervisor, the Graduate Program Director must appoint a permanent supervisor no later than twelve months after first registration.

**G.J.1.5** Within two months of the appointment of a permanent supervisor, the graduate student and Supervisor must complete

and discuss the [Student-Supervisor Checklist](#) and the [Intellectual Property Awareness Checklist](#), if applicable, and file their signed copies with their program office. The relationship between supervisor and the graduate student is an academic one, conducted in a professional manner and in accordance with the Faculty of Graduate Studies [Conflict of Interest Policy](#) and the University of Calgary [Research Integrity Policy](#).

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### **G.J.2 Appointment of Co-Supervisor**

**G.J.2.1** If a student's supervisor does not hold full supervisory privileges (see the University of Calgary Graduate Student Supervision Policy available at <https://www.ucalgary.ca/legal-services/ucalgarys-policies-and-procedures>), the Graduate Program Director must appoint a co-supervisor, in consultation with the supervisor and the student.

**G.J.2.2** If not required under G.J.2.1, the Graduate Program Director may appoint a co-supervisor if recommended by the supervisor and with the agreement of the student.

**G.J.2.3** Postdoctoral scholars are not eligible to serve as co-supervisors.

**G.J.2.4** When a co-supervisor is appointed, all relevant documentation must be signed by both the supervisor and the co-supervisor.

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### **G.J.3 Continuity of Supervision**

**G.J.3.1** Graduate students should expect continuity of supervision through their graduate program (see University of Calgary [Graduate Student Supervision Policy](#)).

**G.J.3.2** Graduate students have a responsibility to maintain strong working relationships with their supervisors as set out in [Best Practices for Graduate Students](#).

**G.J.3.3** In cases where graduate students are unwilling to accept the supervision provided or have chosen to pursue research topics other than those indicated at the time of admission, the graduate program and the Faculty of Graduate Studies have no responsibility to agree to alternate supervisory arrangements if they cannot be reasonably accommodated.

**G.J.3.4** Only under exceptional circumstances, students may request permission from the Faculty of Graduate Studies to change supervisors (see [grad.ucalgary.ca/current-students/thesis-based-students/supervision/changing-supervision](http://grad.ucalgary.ca/current-students/thesis-based-students/supervision/changing-supervision)).

**G.J.3.5** It is the role of the Graduate Program Director (or delegate) and the Faculty of Graduate Studies to try to mediate conflicts between students and supervisors in order to maintain the continuity of the supervisory relationship (see [grad.ucalgary.ca/services/faculty-and-staff/supervisor-resources](http://grad.ucalgary.ca/services/faculty-and-staff/supervisor-resources)).

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### **G.J.4 Financial Commitments to Students at Time of Admission**

**G.J.4.1** Financial support promised in writing by supervisor is contingent upon a student's continued registration and progress in a graduate program. Expectations should be clearly stated in the offer of funding that comes from the graduate program.

**G.J.4.2** It is the collective responsibility of the supervisor(s), the graduate program(s) and the Faculty of Graduate Studies to ensure that financial commitments are met (see University of Calgary Graduate Student Supervision Policy - Financial Commitments).

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### **G.J.5 Composition of the Supervisory Committee: Master's and Doctoral**

**G.J.5.1** The supervisory committee should be constituted by the supervisor in consultation with the student. It will normally consist of the supervisor and co-supervisor, if applicable, and two members. The composition must be approved by the Graduate Program Director (or delegate) and sent to the Faculty of Graduate Studies for information.

- Master's students do not require a supervisory committee unless required by the program or requested by the Graduate Program Director (or delegate).
- Doctoral students require a supervisory committee, which should be appointed as soon as possible, but no later than three months after the appointment of the permanent supervisor or fifteen months after the initial registration. At least one member of a PhD supervisory committee must hold a PhD and full supervisory privileges.
- **G.J.5.2** For both master's and doctoral supervisory committees:
  - Members may be external to the graduate student's program.
  - At least one of the members of the supervisory committee should have had supervisory experience at the doctoral level.

- Postdoctoral scholars are eligible to serve as committee members. A postdoctoral scholar whose supervisor is on the student's supervisory committee is not eligible to serve as a member of the examination committee. In this case, an additional member who is eligible to serve as an examiner must be included in the supervisory committee.
- Persons who are non-academic staff members of the University of Calgary may serve on the supervisory committee with the approval of the Dean of Graduate Studies. Such an individual may be appointed as a regular supervisory committee member or in a non-voting capacity as an advisory member. See section [G.M.3.4](#) for more information on advisory members.

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### G.J.6 Appeals of Decisions of the Dean Regarding Supervision

Student Appeals of decisions of the dean regarding supervision may be made to the Faculty of Graduate Studies Appeals Committee in accordance with the Faculty of Graduate Studies Appeals Procedures [grad.ucalgary.ca/current-students/registration/appeals](http://grad.ucalgary.ca/current-students/registration/appeals).

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## G.K. Candidacy

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### G.K.1 Admission to Candidacy

Admission to candidacy for the doctoral degree is a judgment by the faculty members in the graduate program that the student is prepared to successfully complete the requirements of the doctoral degree program. Subject to any extension allowances, doctoral students must complete all candidacy requirements within 28 months of first registration. Those students who have transferred from a master's program must complete all candidacy requirements within 36 months of the first registration in that master's program. Individual programs may require shorter completion times. Check the program's Candidacy Requirements document for specific details about time limits.

If a student needs longer than the regulation time, the Faculty of Graduate Studies may grant an extension on recommendation of the Graduate Program Director.

Each graduate program specifies its requirements for candidacy in its Candidacy Requirements document. To be admitted to candidacy, the student must successfully:

1. Complete course requirements for their program as set out in the program's Calendar entry. Graduate Program Directors have the authority to require additional courses or waive course requirements for students in consultation with the supervisor and supervisory committee (where applicable).
2. Complete any other program-specific candidacy requirements such as language or seminar requirements, as set out in the program's Calendar entry.
3. Complete a written thesis proposal that is examined and approved by the supervisory committee (and additional examiners, if required by the program).
4. Pass one or more Field of Study examination(s) to demonstrate knowledge in their field of study, as required by the graduate program.

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### G.K.2 Candidacy Examination Outcomes

In their Candidacy Requirements, programs will establish what constitutes a "pass" on each component related to items (2) - (4) above (i.e., grade assigned, unanimity of the committee, etc.). If, for any component related to (4) above, the examination committee requires that a student undertake remedial work, that remedial work must be completed before the student can be admitted to candidacy. Once a student has been admitted to candidacy, they cannot be required to undertake additional course work (excluding courses mandated as post-candidacy requirements in program Calendar entries).

A student who fails any component related to (3) and (4) above will be allowed to retake the examination no sooner than two months and no later than six months from the failed examination. The composition of the examination committee normally will remain the same. A second failure of a candidacy component will result in a student being required to withdraw. In the case of failed outcomes, students have the right to appeal (see G.K.5).

### G.K.3 Program Candidacy Requirements

Each graduate program offering a doctoral degree will establish its own Candidacy Requirements document, within the framework set out in G.K.1.

Together, the thesis proposal and Field of Study examination must include at least one oral and one written component.

The Candidacy Requirements document must be approved by the Faculty of Graduate Studies.

The Candidacy Requirements document must be posted on the program's website.

Candidacy Requirements must be the same for all students in a graduate program, except when they relate to an approved specialization within the degree program.

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### G.K.4 Oral Examination Process (for Field of Study and Thesis Proposal)

(1) It is the responsibility of the supervisor to schedule the oral examination. Under no circumstances are students permitted to make arrangements for an examination.

(2) When required, both the internal and external examiners normally must be members of the Academic Staff and:

- a) have relevant research experience;
- b) not be a close personal friend of the supervisor;
- c) not have collaborated with the supervisor in past five years.

(3) A post-doctoral scholar whose supervisor is either on the supervisory committee (when it is part of the examination committee) or is the supervisor of the student, is not eligible to serve as a member of the examination committee.

(4) Prior to the oral examination, if an examiner suspects that academic misconduct has occurred in the thesis proposal or other written candidacy components, they must contact the Dean of Graduate Studies immediately. The examination will then be suspended until such time as the Dean (or designate) is able to determine whether academic misconduct has occurred and what penalties will be applied. Depending on the determination, the examination may proceed as scheduled, be rescheduled, or be cancelled.

(5) All examiners must be present, either in person or via teleconference, during the entire questioning process as well as the post-examination discussion and vote, unless precluded by the program. When they are part of the examination committee, the supervisor (or the co-supervisor, if applicable) normally must be present in person.

(6) The oral examination questioning will not exceed two hours. The student may be offered an opportunity to give a brief (15-minute) presentation that may be part of the two-hour examination time.

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### G.K.5 Appeals of Decisions Regarding Candidacy Components

Student Appeals of decisions regarding the process for a candidacy component may be made to the Faculty of Graduate Studies Appeals Committee in accordance with the Faculty of Graduate Studies Appeals Procedures <https://grad.ucalgary.ca/current-students/registration/appeals>.

Student Appeals of decisions regarding candidacy components that do not result in a student being immediately required to withdraw may be made as an academic assessment appeal to the Faculty of Graduate Studies Appeals Committee in accordance with the Faculty of Graduate Studies Appeals Procedures <https://grad.ucalgary.ca/current-students/registration/appeals>. See section **I. Reappraisal of Graded Term Work and Academic Assessments (final grades)** of the University of Calgary Calendar.

Student Appeals of decisions regarding candidacy components that do result in a student being immediately required to withdraw may be made to the University Appeals Committee as an academic progression matter decision. See section **J. Student Appeals to the University Appeals Committee and University Appeals Tribunal** of the University of Calgary Calendar.

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## G.L. Theses

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Every graduate student in a thesis-based program must complete a thesis that makes an original scholarly contribution based on research conducted while in program.

Complete information on the formatting, printing, submission and distribution of the thesis is contained in the Faculty of Graduate Studies Thesis Guidelines, available at [grad.ucalgary.ca/current-students/thesis-based-students/thesis](https://grad.ucalgary.ca/current-students/thesis-based-students/thesis).

If required by the program, the student is responsible for the costs of printing and binding the required number of copies of the thesis, and for having the required number of copies bound.

Students must continue to pay the appropriate tuition and general fees until all degree requirements, including the submission of the thesis to the Faculty of Graduate Studies, have been completed.

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## G.L.1 Quality of Thesis

### Doctoral

The doctoral thesis must reflect a significant contribution to knowledge, must contain evidence of a critical understanding of the relevant literature, and must employ appropriate research methodology. It is expected that the material embodied in the thesis must be of high quality and reflects the standards of the discipline.

### Master's

The thesis must demonstrate that the candidate is acquainted with the published literature in the subject of the thesis, that appropriate research methodology has been used, and that appropriate levels of critical analysis have been applied.

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## G.L.2 Integrity in Scholarly Activity

The University's policy governing Integrity in Scholarly Activity applies to all thesis work. Plagiarism and fabrication or falsification of research data will be considered academic misconduct. (See [Student Academic Misconduct](#)).

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## G.L.3 Research and Ethics

All research involving human participants, animals or biohazards must first be reviewed and approved by the appropriate certification committee before research can begin. Failure to obtain appropriate approvals prior to conducting research may result in an outcome of "fail" on the thesis examination.

Graduate students should consult with their departments or graduate programs, and review the Research Ethics site at [research.ucalgary.ca/conduct-research/ethics-compliance](https://research.ucalgary.ca/conduct-research/ethics-compliance) for information about the ethics approval process.

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## G.L.4 Intellectual Property

The student holds the copyright on the thesis, but ownership of Intellectual Property included in the thesis is governed by the University of Calgary Intellectual Property Policy, available at <https://www.ucalgary.ca/legal-services/ucalgarys-policies-and-procedures>.

In the case of manuscript-based thesis, co-authored publications may be included (see **L.5 Form and Style** below).

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## G.L.5 Form and Style

The general form and style of thesis may differ from program to program, but a thesis must be a cohesive document. This document may, with approval of the supervisory committee, include elements such as original creative works, digital elements, entrepreneurial/innovation components, or policy/implementation components. See Thesis Guidelines at [grad.ucalgary.ca/current-students/thesis-based-students/thesis/building-thesis](https://grad.ucalgary.ca/current-students/thesis-based-students/thesis/building-thesis).

In consultation with the Supervisor, students may choose to compose their theses using the traditional thesis style or the manuscript-based thesis style. The thesis must conform to the requirements and regulations described in the Thesis Guidelines, available at [grad.ucalgary.ca/current-students/thesis-based-students/thesis/building-thesis](https://grad.ucalgary.ca/current-students/thesis-based-students/thesis/building-thesis).

Students may hire an editor to copyedit their theses, unless their program's calendar entry prohibits copyediting. Students who choose to hire an editor must comply with the regulations set out in the Thesis Guidelines.

The thesis must conform to all relevant legislation and policy governing copyright.

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## G.L.6 Public Release of Theses

Theses must be submitted to the University of Calgary Online Theses Repository and are normally made public through the Repository.

Under certain circumstances, the Dean of Graduate Studies may approve Thesis Withhold (see Thesis Withhold Regulations, available at [grad.ucalgary.ca/current-students/thesis-based-students/thesis/delay-public-release-thesis](https://grad.ucalgary.ca/current-students/thesis-based-students/thesis/delay-public-release-thesis)).

Theses that include digital elements must include a file capturing the digital element in its form at the time of submission. See Thesis Guidelines at [grad.ucalgary.ca/current-students/thesis-based-students/thesis/building-thesis](https://grad.ucalgary.ca/current-students/thesis-based-students/thesis/building-thesis).

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### G.L.7 Copyediting

Students may hire an editor to copyedit their theses, unless their program's calendar entry prohibits copyediting. The student, supervisor and editor must abide by the following regulations:

1. Prior to hiring a copy editor, permission from the supervisor(s) must be obtained. An agreement outlining the permitted scope of editing must be signed by the student and the supervisor(s).
2. A disclosure statement is required in the thesis (e.g., a sentence in the preface or acknowledgment stating that the thesis has been professionally edited).
3. Under no circumstances should the copyediting alter the content, structure or contribution of the thesis.

Students must check their program's regulations in the Graduate Calendar to see if copyediting is permitted before hiring a copy editor.

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## G.M. Thesis Examinations

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### G.M.1 Purpose

The purpose of the thesis oral examination is not only to defend independently the thesis, but also to serve as confirmation of the student's knowledge of the research topic within the context of their field of study.

In order to safeguard and promote the quality of the graduate education, all students in thesis-based graduate programs must defend their theses in an oral examination before the degree may be granted. The Dean of Graduate Studies may waive this requirement in exceptional circumstances.

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### G.M.2 Scheduling

1) It is the responsibility of the supervisor to schedule the thesis oral examination, to recommend all examining committee members to the Graduate Program Director for approval, and to conform to the timelines set out in *Thesis and Thesis Examination Administrative Processes*, available at [grad.ucalgary.ca/current-students/thesis-based-students/exams/thesis-defence](https://grad.ucalgary.ca/current-students/thesis-based-students/exams/thesis-defence). Under no circumstances are students permitted to make arrangements for an examination.

2) The examination committee, which is approved by the Faculty of Graduate Studies, is convened to make a recommendation of the final outcome of the examination to the Dean of Graduate Studies.

3) Any changes to the composition of examination committees must receive approval from the Faculty of Graduate Studies.

4) With the exception of 6), the doctoral examination cannot be scheduled until all members of the supervisory committee have reviewed the student's research, including a relevant written sample of the material related to the thesis, or the draft thesis document, as required by the graduate program, and have provided written consent that the examination can be scheduled. The supervisor's signature on the Notice of Examination Form acknowledges that the entire thesis meets the minimum standard (see [G.L.1 Quality of Thesis](#)). An indication that the thesis is ready to defend does not commit a member of the supervisory committee to voting "pass" on the thesis at the final oral examination.

5) With the exception of 6), the master's examination cannot be scheduled until the supervisor has reviewed the student's research and the entire draft of the thesis document, as required by the graduate program. When supervisory committees are required, both the supervisor and the committee members must review the student's research, including a relevant written sample of the material related to the thesis, or the draft thesis document, as required by the graduate program. The supervisor's

signature on the Notice of Examination Form acknowledges that the entire thesis meets the minimum standard (see **G.L.1 Quality of Thesis**). An indication that the thesis is ready to defend does not commit a member of the supervisory committee to voting "pass" on the thesis at the final oral examination.

6) A student who has successfully completed all Faculty of Graduate Studies and program requirements has the right to submit and defend a thesis even if doing so may be contrary to the advice of the supervisor and supervisory committee (where applicable).

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### **G.M.3 Composition of the Examination Committee**

The composition of the committee must be recommended by the Graduate Program Director and approved by the Dean of Graduate Studies.

#### **G.M.3.1 Neutral Chair (Doctoral, Master's)**

The oral thesis examination is chaired by a neutral member of the academic staff appointed by the Graduate Program Director.

The Neutral Chair is not a member of the examination committee and may not vote or question the student. The Neutral Chair's responsibility is to ensure that the examination is conducted in a fair and orderly fashion.

#### **G.M.3.2 Internal and External Examiners**

Additional examiners are required for thesis examination committees as outlined in G.M.3.5 and G.M.3.6 below. Both the internal and external examiners normally must:

1. have a well-established research reputation
2. have expertise in the area of the student's research
3. have experience in evaluating theses at the graduate level
4. have experience in supervising to completion at the graduate level
5. not be a close personal friend of the supervisor
6. not have collaborated with the supervisor in past five years
7. not be closely related to, or have worked with the candidate

In addition, the external examiner normally

1. must not have been a supervisor in the candidate's graduate program in the past three years
2. must not have served as external examiner in the candidate's program in the past two years.

If programs wish to put forward internal or external examiners who do not meet all of these criteria, they must provide a rationale for including them on the committee.

#### **G.M.3.3 Non-Academic Staff Members (Doctoral, Master's)**

The Faculty of Graduate Studies may approve qualified persons who are not academic staff members of the University of Calgary to serve on thesis oral examination committees.

#### **G.M.3.4 Advisory Members**

In certain circumstances, up to one supervisory or examination committee member may serve in a non-voting advisory role. Advisory members are to be brought forward by the student or supervisor in consultation with the other. These individuals, whether academics or non-academics, are considered knowledge experts. This knowledge may be demonstrated on the basis of a resume, a CV, lived experiences, or community validation. Programs that wish to propose advisory members should provide a rationale for their inclusion for approval by the Faculty of Graduate Studies.

#### **G.M.3.5 Doctoral Oral Thesis Examination Committee**

The examination committee will consist of:

1. the supervisory committee,
2. an internal examiner: a member of the University of Calgary academic staff whom programs may require to be external to the program and who fits the criteria outlined in M.3.2 Internal and External Examiners,
3. an external examiner: external to the University and who fits the criteria outlined in M.3.2 Internal and External Examiners,
4. other members (at the discretion of the Graduate Program Director, subject to the approval of the Dean of Graduate Studies)
5. up to one advisory member in cases where there is no advisory member on the supervisory committee, where applicable.

A post-doctoral scholar whose supervisor is on the supervisory committee is not eligible to serve as a member of the examination committee.

## **G.M.3.6 Master's Oral Thesis Examination Committee**

The examination committee should consist of:

1. the supervisor
2. supervisory committee, where applicable,
3. an additional member of the University of Calgary academic staff,
4. an internal examiner: a member of the University of Calgary academic staff whom programs may require to be external to the program, or an external member who fits the criteria outlined in M.3.2 Internal and External Examiners
5. up to one advisory member in cases where there is no advisory member on the supervisory committee, where applicable.

If there is a formal supervisory committee, only one additional internal examiner or external examiner is required.

If there is a co-supervisor, but not a formal supervisory committee, an additional member of the University of Calgary academic staff and an internal examiner or external examiner are required.

A post-doctoral scholar whose supervisor is either on the supervisory committee (when applicable) or is the supervisor of the student, is not eligible to serve as a member of the examination committee.

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## **G.M.4 Conflict of Interest**

The examination committee must be seen as impartial and conflicts of interests must be avoided and disclosed. See Graduate Studies Conflict of Interest Policy at [grad.ualgary.ca/current-students/thesis-based-students/supervision/conflict-interest](https://grad.ualgary.ca/current-students/thesis-based-students/supervision/conflict-interest).

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## **G.M.5 Rescheduling of Thesis Examinations**

The Faculty of Graduate Studies must be informed of minor changes in the scheduling of the examinations (e.g., for illness or weather). Programs are allowed to postpone the examination by up to two weeks after the scheduled date.

Postponements of more than two weeks from the original date can be considered in exceptional circumstances and will require approval of the Dean of Graduate Studies.

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## **G.M.6 Cancellation of Thesis Examinations**

A scheduled examination may be cancelled under exceptional circumstances with the approval of the Dean of Graduate Studies.

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## **G.M.7 Format of the Oral Thesis Examination**

All examinations must be conducted according to the procedures described in *Thesis and Thesis Examination Administrative Processes*, available at [grad.ualgary.ca/services/faculty-and-staff/gpdgpa-resources/policies-and-guidelines/guidelines-examiners](https://grad.ualgary.ca/services/faculty-and-staff/gpdgpa-resources/policies-and-guidelines/guidelines-examiners).

### **The Oral Examination**

- 1) The examination begins when the thesis is distributed to the examiners - including the advisory member - at least three weeks prior to the date of the oral examination. Examination committee members may not discuss the thesis amongst themselves or with the student. However, the supervisor and, if applicable, the co-supervisor may discuss the thesis with the student or with each other. The student may not submit revisions while the examination is in progress.
- 2) The oral examination is normally open to the public but only members of the examination committee, including the advisory member, may question the student.
- 3) The oral examination questioning will not exceed two hours.
- 4) The thesis oral examination may be preceded by a separate public seminar, which will not include any questioning by members of the examination committee. If no public seminar preceded the examination the student may be offered an opportunity to give a brief (15 minute) presentation summarizing the thesis in addition to the two-hour examination time.
- 5) Before the oral examination begins, voting members of the examination committee must submit their written and signed examination reports to the Neutral Chair. Written reports are confidential and will not be communicated to the student or other members of the examination committee before the examination committee's recommendation has been finalized by completing the final examination form.

6) Examiners must be present, either in person or via teleconference, during the entire questioning process as well as the post-examination discussion and vote (see *Examination Guidelines* at [grad.ucalgary.ca/services/faculty-and-staff/gpdgpa-resources/policies-and-guidelines/guidelines-examiners](http://grad.ucalgary.ca/services/faculty-and-staff/gpdgpa-resources/policies-and-guidelines/guidelines-examiners)). Normally, the supervisor (or the co-supervisor, if applicable) must be present in person.

7) All examiners, including the advisory member, where applicable, must be given the opportunity to question the student and the questions must be relevant to the thesis document.

8) Prior to the oral examination, if an examiner suspects that academic misconduct has occurred in the thesis, they must contact the Dean of Graduate Studies immediately. The examination will then be suspended until such time as the Dean (or designate) is able to determine whether academic misconduct has occurred and what penalties will be applied. Depending on the determination, the examination may proceed as scheduled, be rescheduled, or be cancelled.

9) Any procedural irregularities must be reported to the Dean of the Graduate Studies within 5 working days of the examination date, regardless of the outcome of the examination.

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### G.M.8 Recommendations at the Conclusion of an Examination

Post-examination procedures must be conducted according to the *Thesis and Thesis Examination Administrative Processes*, available at [grad.ucalgary.ca/services/faculty-and-staff/gpdgpa-resources/policies-and-guidelines/guidelines-examiners](http://grad.ucalgary.ca/services/faculty-and-staff/gpdgpa-resources/policies-and-guidelines/guidelines-examiners).

The advisory member, when present, is invited to provide comments on the thesis and the oral examination once the student has left the room. They do not participate in the remainder of the in-camera discussion following the oral defense.

Recommendation to the Dean of Graduate Studies must be unanimous. If it is not unanimous, the Dean of Graduate Studies will decide the outcome of the thesis and the oral examination.

The examination committee must recommend the outcome of the examination by indicating one of the following in each component:

#### G.M.8.1 Thesis

a) Unanimous pass with no revisions. All examiners must sign the Thesis Approval Form. The thesis must be submitted to the Faculty of Graduate Studies within five days from the date of examination.

b) Unanimous pass with minor revisions: At least one member of the examining committee considers the revisions to be minor while other examiners do not require revisions. Minor revisions involve stylistic changes and/or minor additions or clarifications; these must be correctable within one month from the date of the examination. Deliberations are not to end until all members of the committee reach an agreement on the scope and content of revisions. The supervisor will inform the student of the necessary corrections. The supervisor will withhold their signature until satisfied with the revisions.

c) Unanimous pass with major revisions: At least one member of the examining committee considers the revisions to be major. Major revisions normally require more than changes in style and will typically involve clarification of textual materials, the qualification of research findings, conclusions, or limited additions to the text. Major revisions normally must be completed and submitted to Faculty of Graduate Studies within six months from the date of examination. Deliberations are not to end until all members of the committee reach an agreement on the scope and content of revisions. The supervisor will withhold their signature, and one or more examiners may also withhold their signature, until satisfied with the revisions.

d) Unanimous fail. The student is permitted one resubmission no sooner than six months and no later than 12 months from the first exam date. No decision is made on the oral examination.

e) Failure to reach unanimous decision.

#### G.M.8.2 Oral Examination

a) Unanimous pass.

b) Unanimous fail. If a unanimous fail was reached on the oral examination and the thesis was a pass, the oral component must be retaken within six months from the date of examination.

c) Failure to reach unanimous decision.

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### G.M.9 Retake of Failed Examination

In the case of a failed thesis or a failed oral examination, one resubmission will be allowed and a new examination will be required. A revised thesis must be submitted before the oral examination.

The composition of the examination committee normally will remain the same. Upon the recommendation of the Graduate Program Director and approval of the Faculty of Graduate Studies, an examiner may be replaced.

A second failure of the thesis or the oral examination will result in the student being required to withdraw. In the case of failed outcomes, students have the right to appeal (see M.10 Appeals of Decisions Regarding Thesis Examinations).

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### G.M.10 Appeals of Decisions Regarding Thesis Examinations

Student Appeals of decisions of the dean regarding the process for thesis examination may be made to the Faculty of Graduate Studies Appeals Committee in accordance with the Faculty of Graduate Studies Appeals Procedures [grad.ucalgary.ca/current-students/registration/appeals](https://grad.ucalgary.ca/current-students/registration/appeals).

Student Appeals of decisions regarding thesis examinations that do not result in a student being immediately required to withdraw may be made as an academic assessment appeal to the Faculty of Graduate Studies Appeals Committee in accordance with the Faculty of Graduate Studies Appeals Procedures [grad.ucalgary.ca/current-students/registration/appeals](https://grad.ucalgary.ca/current-students/registration/appeals). See section **I. Reappraisal of Graded Term Work and Academic Assessments (final grades)** of the University of Calgary Calendar.

Student Appeals of decisions regarding thesis examinations that do result in a student being immediately required to withdraw may be made to the University appeals committee as an academic progression decision. See section **J. Student Appeals to the University Appeals Committee and University Appeals Tribunal** of the University of Calgary Calendar.

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## G.N. Graduation

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The deadline dates for Convocation requirements are set out in the [Academic Schedule](#). Students are strongly encouraged to review these dates.

### G.N.1 Application for Graduation

All students who expect to have their degrees or diplomas conferred must complete an online Application for Graduation, available through the Student Centre at [my.ucalgary.ca](https://my.ucalgary.ca). Students who do not complete an Application for Graduation before the posted deadlines will not be cleared to graduate. The deadlines to apply to graduate are available online at [ucalgary.ca/registrar/graduation/when-apply](https://ucalgary.ca/registrar/graduation/when-apply).

At the time of the application, students will also be asked if they wish to attend the Convocation Ceremony (see [Attendance Notification.docx](#)).

### G.N.2 Convocation Requirements

In order to be cleared to graduate, thesis-based students must successfully pass a final thesis oral examination, submit an electronic copy of the thesis to the University of Calgary Theses Repository - the Vault, submit all [required forms](#) to the Faculty of Graduate Studies office, and fulfill graduate program requirements for the submission of thesis copies.

If a student has not been cleared to graduate before the student's next annual registration date, the student must register. If the student does not register, the student will be withdrawn for failure to register. When the student subsequently applies for re-admission to graduate, the student will be assessed fees retroactive to the date of withdrawal.

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## G.O. Appeals

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The University recognizes that there are instances when a student may wish to challenge University decisions about the student. When a dispute arises, every effort should be made to resolve the issues informally rather than resort to a formal appeal.

Student Appeals of academic assessments, academic progression matters, student academic misconduct and student non-academic misconduct may be made as described in sections **I. Reappraisal of Graded Term Work and Academic Assessments (final grades)** and **J. Student Appeals to the University Appeals Committee and University Appeals Tribunal** in the Academic Regulations section in the University Calendar.

Student Appeals of decisions of the dean made regarding registration status (see [G.D.1 Registration, Combined Degrees, Interdisciplinary Degrees, G.G. Internships, G.H. Academic Standing, G.I. Language and G.L. Theses](#)) may be made to the Faculty of Graduate Studies Appeals Committee in accordance with the Faculty of Graduate Studies Appeals Procedures.

Student Appeals of decisions regarding supervision or the process for a thesis exam or candidacy component ([G.J. Supervision, G.K. Candidacy and G.M. Thesis Examinations](#)) may be made to the Faculty of Graduate Studies Faculty Appeals Committee in accordance with the [Faculty of Graduate Studies Faculty Appeals Procedures](#). For more information on graduate student appeals, please see the [Faculty of Graduate Studies Appeals website](#).

For information on continued registration while under appeal, see section [J.1 Continued Registration While Under Appeal](#) in the Academic Regulations section of the University Calendar.

For process information and resources regarding appeals to the University Appeals Committee please see the Student Appeals Office website at: [ucalgary.ca/student-appeals](http://ucalgary.ca/student-appeals).

Students may obtain help in understanding the appeals process and in writing appeal letters from the Student Ombuds Office. For more information, refer to their website: [ucalgary.ca/ombuds](http://ucalgary.ca/ombuds).

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## K. Integrity and Conduct

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The University of Calgary foundational commitments expressed in the Eyes High Strategy are to:

- sharpen focus on research and scholarship
- enrich the quality and breadth of learning
- integrate the university with the community

The university seeks to create and maintain a positive and productive learning, working and living environment; an environment in which there is:

- respect for the dignity of all
- fair treatment of individuals
- respect for academic freedom
- respect for university resources and the property of individuals

When representing the university, employees, academic staff members, appointees, students and volunteer appointees are required to act:

- ethically, honestly and with integrity; and
- in accordance with the principles of fairness, good faith, and respect

All members of the University community have a responsibility to familiarize themselves with this Statement on Principles of Conduct and to comply with University of Calgary policies on conduct including:

Code of Conduct: [ucalgary.ca/legal-services/university-policies-procedures/code-conduct](http://ucalgary.ca/legal-services/university-policies-procedures/code-conduct).

Student Non-Academic Misconduct Policy and Procedures:

[ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-policy](http://ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-policy).

[ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-procedure](http://ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-procedure).

[ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Non-Academic-Misconduct-Procedure.pdf?#AppendixA](http://ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Non-Academic-Misconduct-Procedure.pdf?#AppendixA).

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[K.1 Other Impermissible Conduct](#)

[K.2 Student Appeals](#)

[K.3 Statement on Academic Integrity](#)

[K.4 Research Integrity](#)

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## L. Free Expression

All members of the university have the right of free expression, which means the freedom to investigate, comment, listen, gather, challenge and critique subject to the law and, on our campuses, to university policies and procedures related to the functioning of the university.

In 2019, the University of Calgary published a statement committed to the principles of free expression: [ucalgary.ca/provost/sites/default/files/StatementonFreeExpression.pdf](https://ucalgary.ca/provost/sites/default/files/StatementonFreeExpression.pdf).

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## G.R. Time Off From Studies for Thesis-based Graduate Students

Thesis-based graduate students are entitled to three weeks (15 days) of annual vacation / time off from their studies. This includes all research, scholarly and creative activities. The three weeks of time off do not include statutory holidays or days designated by the University as closed. The three weeks of time off will not interrupt scholarship or stipend payments for those graduate students holding continuing scholarships or funding guarantees.

It is expected that supervisors will allow students to take their three weeks of time off from their studies every year. Time off from studies must be approved by the student's supervisor and any faculty member providing funding. It must be arranged so that there is minimal impact to the student's research and other obligations to the University and cannot be taken during any period of time where the graduate student has employment obligations to the University. While many courses are not scheduled over Fall and Winter term breaks, thesis-based graduate students are expected to continue their regular research, scholarly and creative activities unless they request time off over those periods. Requests and approvals must be documented. There will be no vacation pay in lieu of any time not taken, and unused time off from studies cannot be carried forward from one year to the next. It is a student's responsibility to ensure that any coursework obligations are addressed in advance of arranging time off.

The leave of absence provisions for graduate students, which apply to students who are unable to be academically active or productive for a period of time, are available at [G.D.7 Leave of Absence](#).

Vacation provisions for Graduate Assistants are outlined in the [collective agreement](#) between the Governors of the University of Calgary and the Graduate Students' Association of the University of Calgary.

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## Academic Schedule Overview

### 2024-2025 Academic Dates and Deadlines

The academic year starts with the Fall Term and ends with the Summer Intercession.

The schedules for the Juris Doctor, Doctor of Medicine and the Doctor of Veterinary Medicine may have different start and end dates.

Courses taught according to a [non-standard schedule](#) have different drop, add and withdrawal deadlines. Please refer to the [Student Centre](#) for deadlines specific to courses with a non-standard schedule.

The academic schedule may be updated online when required and as needed.

Tentative Future Dates

Academic Schedule Overview

### Fall 2023/Winter 2024

	Fall Term 2023	Winter Term 2024
<b>ACADEMIC DATES</b>		
Start of Term	Monday, August 28	Tuesday, January 2
End of Term	Friday, December 22	Tuesday, April 30
Block Week	Monday-Friday, August 28-September 1	Tuesday-Saturday, January 2-6
Start of Classes	Tuesday, September 5	Monday, January 8
Term Break, no classes	Sunday-Saturday, November 12-18	Sunday-Saturday, February 18-24
End of Classes	Wednesday, December 6	Tuesday, April 9
Start of Exams	Saturday, December 9	Friday, April 12
End of Exams	Wednesday, December 20	Tuesday, April 23
<b>REGISTRATION DATES</b>		
Last day to drop a class without financial penalty*	Thursday, September 14	Thursday, January 18
Last day to add or swap a course	Friday, September 15	Friday, January 19
Last day to withdraw from a course**	Wednesday, December 6	Tuesday, April 9
<b>TUITION AND REFUND DATES</b>		
End of refund period	Thursday, September 14	Thursday, January 18
Tuition and Fee Payment Deadline	Friday, September 22	Friday, January 26
<b>IMPORTANT DATES</b>		
Deadline to Apply for Fall Convocation	Friday, September 15	
Fall Convocation	Thursday, November 16	
Deadline to Apply for Winter Conferral of Degree		Monday, January 15
Winter Conferral of Degree		Tuesday, February 13
Deadline to Apply for Spring Convocation		Sunday, March 31
<i>Thesis-based degrees:</i> Last day to submit required forms to the Faculty of Graduate Studies and thesis to The Vault to be eligible for Spring Convocation.		Tuesday, April 30
<i>Course-based degrees:</i> last day to complete all degree requirements to be eligible for Spring Convocation.		Tuesday, April 30
<b>RECOGNIZED HOLIDAYS (UNIVERSITY CLOSED)</b>		
Labour Day	Monday, September 4	
National Day for Truth and Reconciliation	Saturday, September 30	
Thanksgiving Day	Monday, October 9	
Remembrance Day	Saturday, November 11 (observed November 13)	Monday, November 13

## UCalgary

Holiday Observance	Monday-Sunday, December 25-31	
New Year's Day		Monday, January 1
Alberta Family Day		Monday, February 19
Good Friday		Friday, March 29
Easter Monday		Monday, April 1

*\*There will be no academic record of a course that is dropped by this date and tuition will be refunded.*

*\*\*There will be a "W" recorded for the course and tuition will not be refunded.*

Academic Schedule Overview

## Spring/Summer 2024

	Spring/Summer Term 2024	Spring Intercession 2024	Summer Intercession 2024
<b>ACADEMIC DATES</b>			
Start of Term	Wednesday, May 1	Wednesday, May 1	Monday, June 24
End of Term	Sunday, August 25	Sunday, June 23	Sunday, August 25
Start of Classes		Monday, May 6	Monday, June 24
End of Classes		Monday, June 17	Tuesday, August 6
Start of Exams		Wednesday, June 19	Thursday, August 8
End of Exams		Saturday, June 22	Monday, August 12
<b>REGISTRATION DATES</b>			
Last day to drop a class without financial penalty*	Thursday, May 9	Thursday, May 9	Thursday, June 27
Last day to add or swap a course		Thursday, May 9	Thursday, June 27
Last day to withdraw from a course**		Monday, June 17	Tuesday, August 6
<b>TUITION AND REFUND DATES</b>			
End of refund period	Thursday, May 9	Thursday, May 9	Thursday, June 27
Tuition and Fee Payment Deadline	Tuesday, May 14	Tuesday, May 14	Wednesday, July 3
<b>IMPORTANT DATES</b>			
<i>Thesis-based degrees:</i> Last day to submit required forms to the Faculty of Graduate Studies and thesis to The Vault to cancel Spring registration. Must apply for Fall Convocation.	Tuesday, May 14		
Spring Convocation		Wednesday-Friday, May 29-June 7	
<i>Thesis-based degrees:</i> Last day to submit required forms to the Faculty of Graduate Studies and thesis to The Vault to cancel Summer registration. Must apply for Fall Convocation.			Wednesday, July 3
<i>Graduate Course-based degrees:</i> last day to complete all degree requirements to be eligible for Fall Convocation.			Saturday, August 31
<b>RECOGNIZED HOLIDAYS (UNIVERSITY CLOSED)</b>			
Victoria Day		Monday, May 20	
Canada Day			Monday, July 1
Alberta Heritage Day			Monday, August 5

\*There will be no academic record of a course that is dropped by this date and tuition will be refunded.

\*\*There will be a "W" recorded for the course and tuition will not be refunded.

Academic Schedule Overview

## Fall 2024/Winter 2025

	Fall Term 2024	Winter Term 2025
<b>ACADEMIC DATES</b>		
Start of Term	Monday, August 26	Monday, January 6

End of Term	Tuesday, December 24	Wednesday, April 30
Block Week	Monday-Friday, August 26-30	Monday-Friday, January 6-10
Start of Classes	Tuesday, September 3	Monday, January 13
Term Break, no classes	Sunday- Saturday, November 10- 16	Sunday- Saturday, February 16-22
End of Classes	Friday, December 6	Friday, April 11
Start of Exams	Monday, December 9	Monday, April 14
End of Exams	Thursday, December 19	Monday, April 28
<b>REGISTRATION DATES</b>		
Last day to drop a class without financial penalty*	Thursday, September 12	Thursday, January 23
Last day to add or swap a course	Friday, September 13	Friday, January 24
Last day to withdraw from a course**	Friday, December 6	Friday, April 11
<b>TUITION AND REFUND DATES</b>		
End of refund period	Thursday, September 12	Thursday, January 23
Tuition and Fee Payment Deadline	Friday, September 20	Friday, January 31
<b>IMPORTANT DATES</b>		
Deadline to Apply for Fall Convocation	Sunday, September 15	
<i>Thesis-based degrees:</i> Last day to submit required forms to the Faculty of Graduate Studies and thesis to The Vault to be eligible for Fall Convocation and cancel Fall registration.	Friday, September 20	Friday, January 31
Fall Convocation	Wednesday- Thursday, November 13- 14	
<i>Graduate Course-based degrees:</i> last day to complete all degree requirements to be eligible for Winter Conferral.	Tuesday, December 31	
Deadline to Apply for Winter Conferral of Degree		Wednesday, January 15
<i>Thesis-based degrees:</i> Last day to submit required forms to the Faculty of Graduate Studies and thesis to The Vault to be eligible for Winter Conferral and cancel Winter registration.		Friday, January 31
Winter Conferral of Degree		Thursday, February 13
Deadline to Apply for Spring Convocation		Monday, March 31
<i>Thesis-based degrees:</i> Last day to submit required forms to the Faculty of Graduate Studies and thesis to The Vault to be eligible for Spring Convocation.		Wednesday, April 30
<i>Course-based degrees:</i> last day to complete all degree requirements to be eligible for Spring Convocation.		Wednesday, April 30
<b>RECOGNIZED HOLIDAYS (UNIVERSITY CLOSED)</b>		
Labour Day	Monday, September 2	

National Day for Truth and Reconciliation, University closed*	Monday, September 30	
Thanksgiving Day	Monday, October 14	
Remembrance Day	Monday, November 11	
Holiday Observance	Wednesday- Tuesday, December 25- 31	
New Year's Day		Wednesday, January 1
Alberta Family Day		Monday, February 17
Good Friday		Friday, April 18
Easter Monday		Monday, April 21

\*There will be no academic record of a course that is dropped by this date and tuition will be refunded.

\*\*There will be a "W" recorded for the course and tuition will not be refunded.

Academic Schedule Overview

## Spring/Summer 2025

	Spring/Summer Term 2025	Spring Intercession 2025	Summer Intercession 2025
<b>ACADEMIC DATES</b>			
Start of Term	Thursday, May 1	Thursday, May 1	Monday, June 30
End of Term	Sunday, August 24	Sunday, June 29	Sunday, August 24
Start of Classes		Monday, May 5	Monday, June 30
End of Classes		Monday, June 16	Tuesday, August 12
Start of Exams		Wednesday, June 18	Thursday, August 14
End of Exams		Saturday, June 21	Monday, August 18
<b>REGISTRATION DATES</b>			
Last day to drop a class without financial penalty*	Thursday, May 8	Thursday, May 8	Friday, July 4
Last day to add or swap a course		Thursday, May 8	Friday, July 4
Last day to withdraw from a course**		Monday, June 16	Tuesday, August 12
<b>TUITION AND REFUND DATES</b>			
End of refund period	Thursday, May 8	Thursday, May 8	Friday, July 4
Tuition and Fee Payment Deadline	Tuesday, May 13	Tuesday, May 13	Friday, July 4
<b>IMPORTANT DATES</b>			
<i>Thesis-based degrees:</i> Last day to submit required forms to the Faculty of Graduate Studies and thesis to The Vault to cancel Spring registration. Must apply for Fall Convocation.		Tuesday, May 13	
Spring Convocation		Wednesday-Friday, June 4-13	
<i>Thesis-based degrees:</i> Last day to submit required forms to the Faculty of Graduate Studies and thesis to The Vault to cancel Summer registration. Must apply for Fall Convocation.			Friday, July 4
<i>Graduate Course-based degrees:</i> last day to complete all degree requirements to be eligible for Fall Convocation.			Saturday, August 31
<b>RECOGNIZED HOLIDAYS (UNIVERSITY CLOSED)</b>			
Victoria Day		Monday, May 19	
Canada Day			Tuesday, July 1
Alberta Heritage Day			Monday, August 4

\*There will be no academic record of a course that is dropped by this date and tuition will be refunded.

\*\*There will be a "W" recorded for the course and tuition will not be refunded.

## Course Fee Rate Groups Reference Tables

### Course Fee Rate Groups Reference Tables

The following tables outline course-based tuition rates for undergraduate and graduate domestic and international students. See [P.1.1](#) for undergraduate and [P.2.3](#) for graduate course-based rates. Fee rate groups will also be visible to students when searching and registering for courses, and when reviewing student financial statements.

Tuition is assessed based on the level of the course; therefore, undergraduate students taking a graduate-level course will pay the graduate course fee rate. Graduate students taking an undergraduate-level course will pay the undergraduate course fee rate.

### Domestic Course Fee Rate Groups

UNDERGRADUATE COURSE FEE RATE GROUP		TUITION PER 3-UNIT COURSE
A		\$709.98
B		\$729.87
C		\$747.18
D		\$925.65
E		\$1,024.83
F		\$1,352.85
G		\$2,159.94
H		\$5757.15
CI (per 15 units)		\$557.70
GRADUATE COURSE FEE RATE GROUP		TUITION PER 3-UNIT COURSE
A		\$942.27
B		\$995.82
C		\$1,597.74
D		\$2,216.22
E		\$2,353.08
F		\$2,569.74
G		\$2,936.13
H		\$3,454.29
H (half)*		\$1,727.15
IN		\$235.56

\*H (half) is a tuition course fee rate group approved for particular courses at half the rate of group H.

## International Course Fee Rate Groups

UNDERGRADUATE COURSE FEE RATE GROUP		TUITION PER 3-UNIT COURSE
A		\$2,845.98
B		\$3,338.04
C		\$3,835.74
D		\$4,908.48
E		\$5,782.98
F		\$5757.15
CI (per 15 units)		\$2,230.68
GRADUATE COURSE FEE RATE GROUP		TUITION PER 3-UNIT COURSE
A		\$1,880.94
B		\$2,518.20
C		\$3,336.03
D		\$3,835.74
E		\$4204.26
F		\$4,971.36
G		\$4,852.44
G (half)*		\$2,426.22
H		\$5,804.70
I		\$6,866.64
IN		\$629.57

\*G (half) is a tuition course fee rate group approved for particular courses at half the rate of group G.

Some students are eligible for a different tuition rate based on the term and program to which they were admitted. These rates are

referred to as *Retained Tuition Rate Groups* throughout this Calendar. Undergraduate students eligible for a Retained Tuition Rate Group see [P.1.1.1 Undergraduate Retained Tuition Rate Groups](#), and eligible graduate students see [P.2.3.2 Graduate Course-based Retained Tuition Rate Groups](#).

P.1 Undergraduate Tuition and General Fees

P.2 Graduate Tuition and General Fees

P.3 General Fees

P.4 Tuition and Fee Regulations

[Back to P. Tuition and General Fees](#)

## Course Fee Rate Groups Reference Tables

### Course Fee Rate Groups Reference Tables

The following tables outline course-based tuition rates for undergraduate and graduate domestic and international students. See [P.1.1](#) for undergraduate and [P.2.3](#) for graduate course-based rates. Fee rate groups will also be visible to students when searching and registering for courses, and when reviewing student financial statements.

Tuition is assessed based on the level of the course; therefore, undergraduate students taking a graduate-level course will pay the graduate course fee rate. Graduate students taking an undergraduate-level course will pay the undergraduate course fee rate.

### Domestic Course Fee Rate Groups

UNDERGRADUATE COURSE FEE RATE GROUP		TUITION PER 3-UNIT COURSE
A		\$709.98
B		\$729.87
C		\$747.18
D		\$925.65
E		\$1,024.83
F		\$1,352.85
G		\$2,159.94
H		\$5757.15
CI (per 15 units)		\$557.70
GRADUATE COURSE FEE RATE GROUP		TUITION PER 3-UNIT COURSE
A		\$942.27
B		\$995.82
C		\$1,597.74
D		\$2,216.22
E		\$2,353.08
F		\$2,569.74
G		\$2,936.13
H		\$3,454.29
H (half)*		\$1,727.15
IN		\$235.56

\*H (half) is a tuition course fee rate group approved for particular courses at half the rate of group H.

### International Course Fee Rate Groups

UNDERGRADUATE COURSE FEE RATE GROUP		TUITION PER 3-UNIT COURSE
A		\$2,845.98
B		\$3,338.04
C		\$3,835.74
D		\$4,908.48
E		\$5,782.98
F		\$5,757.15
CI (per 15 units)		\$2,230.68
GRADUATE COURSE FEE RATE GROUP		TUITION PER 3-UNIT COURSE
A		\$1,880.94
B		\$2,518.20
C		\$3,336.03
D		\$3,835.74
E		\$4,204.26
F		\$4,971.36
G		\$4,852.44
G (half)*		\$2,426.22
H		\$5,804.70
I		\$6,866.64
IN		\$629.57

\*G (half) is a tuition course fee rate group approved for particular courses at half the rate of group G.

Some students are eligible for a different tuition rate based on the term and program to which they were admitted. These rates are referred to as *Retained Tuition Rate Groups* throughout this Calendar. Undergraduate students eligible for a Retained Tuition Rate Group see [P.1.1.1 Undergraduate Retained Tuition Rate Groups](#) and eligible graduate students see [P.2.3.2 Graduate Course-based Retained Tuition Rate Groups](#).

P.1 Undergraduate Tuition and General Fees

P.2 Graduate Tuition and General Fees

P.3 General Fees

P.4 Tuition and Fee Regulations

[Back to P. Tuition and General Fees](#)

## P.1 Undergraduate Tuition and General Fees

P.1.1 Undergraduate Tuition

P.1.2 Undergraduate General Fees

[Back to P. Tuition and General Fees](#)

## P.2 Graduate Tuition and General Fees

Graduate students are assessed tuition and general fees as listed in the tuition and general fees charts. Refer to the [Academic Schedule](#) for payment deadlines.

Tuition and fees vary by program. Tuition will be assessed at the rate indicated for the program offering the course.

Students pay the tuition and fees applicable to the term in which their studies begin, also known as the student's admission term, regardless of when they received their letter of admission to the program.

Students eligible for Graduate Course-based Retained Tuition Rate Groups refer to [P.2.3.2](#).

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- P.2.1 Thesis-Based and Professional Doctorate Tuition
  - P.2.2 Executive Master of Business Administration Tuition
  - P.2.3 Graduate Course-based Tuition
  - P.2.4 Graduate Program-Specific Tuition and Fees
  - P.2.5 Graduate Student General Fees
- 

[Back to P. Tuition and General Fees](#)

## P.3 General Fees

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- P.3.1 Student Services Fee
  - P.3.2 Campus Recreation and Athletic Fees
  - P.3.3 Donations
  - P.3.4 General Fees Collected on behalf of Third Parties
- 

[Back to P. Tuition and General Fees](#)

## P.4 Tuition and Fee Regulations

Students are responsible for all fees assessed by the University of Calgary. The University of Calgary will not withdraw students from their course registrations for non-payment or non-attendance. Students who do not drop courses by the term course drop deadline are still financially responsible for any courses in which they are registered.

- P.4.1 Payment of Fees
  - P.4.2 Method of Payment
  - P.4.3 Late Payment of Fees
  - P.4.4 Overdue Student Accounts
  - P.4.5 Fee Refunds
  - P.4.6 Audit Fees
  - P.4.7 Undergraduate Co-operative Education/Internship Fees
  - P.4.8 Online/Distance
  - P.4.9 Exchange Students
  - P.4.10 Visiting Students
  - P.4.11 International Students
  - P.4.12 Senior Citizens
  - P.4.13 Mandatory Supplementary Fees for Courses
  - P.4.14 Faculty of Graduate Studies Fee Regulations
  - P.4.15 Faculty of Law
  - P.4.16 Postgraduate Medical Education
  - P.4.17 Faculty of Social Work (Edmonton and Lethbridge Divisions)
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[Back to P. Tuition and General Fees](#)

## Q. Student Financial Support and Awards

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### Undergraduate Awards

Location: MacKimmie Tower 116

Telephone: 403.210.7625

Email: [ucawards@ucalgary.ca](mailto:ucawards@ucalgary.ca)

Website: [ucalgary.ca/awards](http://ucalgary.ca/awards)

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## Financial Aid (Government Student Loans)

Location: MacKimmie Tower 116

Telephone: 403.210.7625

Email: [financialaid@ucalgary.ca](mailto:financialaid@ucalgary.ca)

Website: [ucalgary.ca/registrar/finances/student-loans](http://ucalgary.ca/registrar/finances/student-loans)

## Graduate Student Awards Office

Location: MacKimmie Tower, 2nd Floor

Website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards)

The University of Calgary supports students through scholarships, bursaries and awards and participates in government student loan programs. Programs are available to recognize outstanding achievement, community service and leadership and provide financial support to students in need.

Students are encouraged to develop a plan for financing the costs of university from their first term through to the completion of their program. To access financial assistance, apply for awards and government student loans well before the start of the academic year and be aware of the application deadlines for awards and government student loans. Although each student's needs and resources differ, the University provides a list of general fees and expenses. Refer to the [Tuition and General Fees](#) section in this Calendar for details.

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Q.1 Awards for Undergraduate Students

Q.2 Awards and Financial Assistance for Graduate Students

Q.3 Financial Aid

## Q.1 Awards for Undergraduate Students

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### Contacts

#### Undergraduate Awards

Location: Hunter Student Commons, Room 220

Telephone: 403.210.7625

Email: [ucawards@ucalgary.ca](mailto:ucawards@ucalgary.ca)

Website: [ucalgary.ca/registrar/finances/awards](http://ucalgary.ca/registrar/finances/awards)

#### Financial Aid (Government Student Loans)

Location: Hunter Student Commons, Room 220

Telephone: 403.210.7625

Email: [financialaid@ucalgary.ca](mailto:financialaid@ucalgary.ca)

Website: [ucalgary.ca/registrar/finances/financial-aid](http://ucalgary.ca/registrar/finances/financial-aid)

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Q.1.1 Types of Awards and Requirements

Q.1.2 Awards Application Procedure

Q.1.3 Award Eligibility

Q.1.4 Award Payment Information

Q.1.5 Policy and Regulations

Q.1.6 Award Competitions

Q.1.7 Faculty of Veterinary Medicine Awards

Q.1.8 Faculty of Law Awards

Q.1.9 Cumming School of Medicine Awards

Q.1.10 Athletic Awards

Q.1.11 Awards for Graduating Students

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[Back to Q. Student Financial Support and Awards](#)

## Q.2 Awards and Financial Assistance for Graduate Students

### Graduate Student Awards Office

Location: MacKimmie Tower, 2nd Floor

Website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards)

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The University of Calgary is very proud of its graduate student awards program. In addition to recognizing academic achievement, scholarships are important in helping to bridge the gap between the rising cost of attending university and limited student income. Attracting top national and international students to the University of Calgary continues to be a very high priority.

We are extremely pleased that our donors share our commitment to graduate student awards, and we appreciate the financial support offered by all of our valued donors.

Full-time students registered in a graduate degree program at the University of Calgary are eligible for awards and financial assistance.

Scholarship information and application instructions are found on the graduate award website and through the searchable awards database at [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Additional information is available from your program. Because the award list is published a considerable time before the opening of the session, the university reserves the right to make whatever changes circumstances may require, including cancellation or addition of particular awards.

University Assistantships	
Project Employment	
Sessional Instructorships	
Faculty of Graduate Studies Scholarships (FGSS)	
Graduate Students' Association Bursaries	
Government Financial Assistance	
International Students	
Awards Offered by Government, Industry and Others	
Faculty of Graduate Studies Scholarships and Awards	

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[Back to Q. Student Financial Support and Awards](#)

## Q.3 Financial Aid

Q.3.1 Government Student Loans

Q.3.2 U.S. Student Funding

Q.3.3 Student Budgeting

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[Back to Q. Student Financial Support and Awards](#)

## Experiential Learning

1. Introduction to Work-Integrated Learning (WIL)

2. Regulations for Formalized Co-operative Education/Internship Programs

3. Regulations for Internships Outside of Formalized Internship Programs

4. Faculty Contact Information for Undergraduate Co-operative Education/Internship

## Credentials and Nomenclature

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Types of Credentials and Sub-Degree Nomenclature

Undergraduate Degrees with a Major

Undergraduate Combined Degrees

Undergraduate Minor Programs

Graduate Studies Summary of Degree Programs

Graduate Degrees Offered

Graduate Combined Degree and Dual Degree Programs

Graduate Interdisciplinary Degrees and Specializations

Graduate-level Certificate, Diploma Programs and Laddered Pathways

Graduate Internship Programs

## University of Calgary Faculties and Schools

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Faculty of Graduate Studies

All other faculties and schools:

School of Architecture, Planning and Landscape

Faculty of Arts

Cumming School of Medicine

Haskayne School of Business

Faculty of Kinesiology

Faculty of Law

Faculty of Nursing

Faculty of Nursing (Qatar)

Schulich School of Engineering

Faculty of Science

Faculty of Social Work

Faculty of Veterinary Medicine

Werklund School of Education

Continuing Education

## Student and Campus Services

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For a complete listing of all student and campus services available to students, please refer to [Student and Campus Services](#). For additional services available to Graduate Students, please refer to [Graduate Student Services](#).

## The Students' Union

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The SU is the elected voice of undergraduate students at the University of Calgary and advocates on their behalf on the quality and affordability of their university education. The SU also provides a range of programs and services, such as the undergraduate student health and dental plan, the Q Centre, the Campus Food Bank, SU Volunteer Services, support for more than 300 student

## UCalgary

clubs, and events such as the annual Teaching Excellence Awards and Bermuda Shorts Day. The SU manages Mac Hall and operates the Den and Black Lounge, La Taqueria, Bound and Copied, Stör, and a conference centre and all proceeds are reinvested into programs that benefit students and the campus.

Telephone: 403.220.6551

Email: [reception@su.ucalgary.ca](mailto:reception@su.ucalgary.ca)

Location: Students' Union Office, MacEwan Student Centre (MSC) 251

Website: [su.ucalgary.ca/](http://su.ucalgary.ca/)

## Graduate Students' Association (GSA)

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### Message from the GSA President

The Graduate Students' Association (GSA) provides a strong foundation for graduate students at the University of Calgary by advocating on their behalf, and addressing their needs by offering essential services and programs that support and empower them during and after their academic endeavors.

Through services such as professional development workshops, mentorship opportunities, leadership opportunities, social events, a health and dental plan, and awards, grants, and bursaries, the GSA is dedicated to enhancing the well-being and student experience of graduate students.

The GSA also owns and operates the Last Defence Lounge, a full service restaurant located on the third floor of the MacEwan Student Centre (MSC 350).

For a full list of GSA services, visit: [gsa.ucalgary.ca](http://gsa.ucalgary.ca).

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### GSA Membership

All full-time and part-time graduate students registered through the Faculty of Graduate Studies are members of the Graduate Students' Association. Every member pays an annual Association fee. To see a breakdown of fees, visit: [gsa.ucalgary.ca/about-the-gsa/gsa-fees](http://gsa.ucalgary.ca/about-the-gsa/gsa-fees).

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### GSA Executive

The affairs of the GSA are overseen by the Board of Directors. This board is elected each spring for a one-year term. The executive positions are:

President: [pres.gsa@ucalgary.ca](mailto:pres.gsa@ucalgary.ca)

Vice-President Academic: [vpa.gsa@ucalgary.ca](mailto:vpa.gsa@ucalgary.ca)

Vice-President External: [vpext.gsa@ucalgary.ca](mailto:vpext.gsa@ucalgary.ca)

Vice-President Student Life: [vpsl.gsa@ucalgary.ca](mailto:vpsl.gsa@ucalgary.ca)

Vice-President Finance and Services: [vpfs.gsa@ucalgary.ca](mailto:vpfs.gsa@ucalgary.ca)

The five executives and their team of staff and volunteers support and advocate for the members of the GSA and advance the GSA's goals. According to the Graduate Calendar, GSA Executives are released from course, research, and teaching responsibilities in proportion to the expectations demanded by their role with the GSA. As well, GSA Executives can qualify for an extra year of study without penalty.

Each executive is responsible for specific aspects of the Association. The following is a brief overview of each executive's primary responsibilities:

The President is the official spokesperson and chief advocate of the GSA and is responsible for leading the development and implementation of the GSA's strategic plan and overseeing the governance of the organization, and ensuring that the GSA adheres to our bylaws, policies, and procedures. The President represents graduate students on the University of Calgary Board of Governors.

The Vice-President Academic is responsible for all academic matters affecting graduate students. This includes advocating for their academic interests and concerns, overseeing GSA awards, and joint oversight of the Ombudsperson. The role also oversees academic workshops and events, including PEER Beyond, the GSA's annual academic conference.

The Vice-President External is the chief government relations officer of the Association and is responsible for the GSA's government and community engagement. This includes overseeing advocacy efforts, social media, and the GSA's employer liaison

and mentorship program. The VP External is also the graduate students' representative on the University of Calgary Senate.

The Vice-President Student Life is responsible for non-academic student matters that impact graduate students. This includes all matters relating to Departmental Graduate Associations (DGAs) and Graduate Student Groups (GSGs), planning and organizing social events, representing the GSA in the Campus Mental Health Strategy and community engagement initiatives. The Vice-President Student Life also oversees the GSA's weekly News and Views e-newsletter, which is sent out every Tuesday to all graduate students.

The Vice-President Finance and Services oversees the finances of the GSA and the Last Defence Lounge and is responsible for all GSA services. This includes oversight of the GSA's Health and Dental plan, management of the process and procedures for **Quality Money**, and ensuring that the GSA's financial and strategic goals are aligned.

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### Volunteering Opportunities

The GSA offers a variety of volunteer opportunities for graduate students to get involved with the University community. From one-time events to long-term volunteer positions, there are many ways students can become involved and help shape the graduate student experience. For more information, please visit: [gsa.ucalgary.ca/services/volunteer](https://gsa.ucalgary.ca/services/volunteer) or contact the Volunteer and Services Coordinator at [lgirgis@ucalgary.ca](mailto:lgirgis@ucalgary.ca).

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### Departmental Graduate Associations

Through the GSA, each department of the university is able to form a Departmental Graduate Association (DGA). Some of the benefits of joining a DGA include funding opportunities for Association events and functions, as well as a group discount at the Last Defence Lounge. Many departments already have DGAs and the GSA encourages students to join – not only because it provides a networking opportunity within the department, but it also because it fosters a stronger sense of community for graduate students. More information, along with a list of existing DGAs, can be found here: [gsa.ucalgary.ca/dgasgrns](https://gsa.ucalgary.ca/dgasgrns).

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### Graduate Student Groups

Graduate students are also able to form student groups based on interests outside of academic ones. Further details about registered groups and the process for forming new ones can be found here: [gsa.ucalgary.ca/graduatestudentgroups](https://gsa.ucalgary.ca/graduatestudentgroups).

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### Graduate Representative Council

The Graduate Representative Council (GRC) provides direction to the GSA's Board of Directors on political, financial, and operational matters of the GSA. The GRC includes representatives from all active DGAs and is responsible for GSA oversight including budget and fees approval, appointing the auditor, and monitoring GSA policies, practices and activities as reported by the Board of Directors. The GRC meets at least six times per year and is essential in setting the overall direction of the GSA.

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### Graduate Student Representation

GSA representatives include both the GSA Executives and GRC representatives, and sit as full voting members on most major committees at the University and provide a graduate student voice on issues on and off campus. Graduate students at the University of Calgary are also represented on provincial (the Alberta Graduate Provincial Advocacy Council or ab-GPAC) and national (GU15) student organizations.

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### The GSA Office and the Last Defence Lounge

The GSA main office is located on the tenth floor of the Earth Sciences building (ES 1030) which houses all of the GSA's operations, including the health and dental plan. The Last Defence Lounge, to which all members of the University community and their guests are welcome, is located on the third floor of the MacEwan Student Centre (MSC 350). For the latest lounge news and daily specials, visit: [lastdefencelounge.ca](https://lastdefencelounge.ca).

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### GSA Health and Dental Plan

The GSA provides its members with access to a comprehensive extended Health and Dental plan. Through their enrolment in a full-time graduate program at the University, active members are automatically enrolled in the GSA's extended Health and Dental

## UCalgary

plan (part-time students are also able to opt-in to the plan). The plan encompasses a wide variety of coverage and allows students to access critical services such as prescriptions drugs, dental, vision, and many other health care practitioners. For more information and a breakdown of fees, visit: [gsa.ucalgary.ca/health-dental-services](http://gsa.ucalgary.ca/health-dental-services).

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### Awards, Bursaries, and Grants

There are several ways in which the GSA provides funding and recognition for our members. The Professional Development Grant supports graduate students' professional development and the GSA bursaries are given out to students who demonstrate financial need. In the spring of each year, the GSA presents awards of recognition to exceptional teachers, supervisors, administrative assistants, mentors, volunteers and student leaders. Students can also apply for the Alberta Graduate Citizenship Award in the Fall term each year. Visit our [awards](#) page for more information and to keep up to date on upcoming opportunities.

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### Quality Money

The GSA is committed to enhancing the graduate student experience. [Quality Money](#) is one way that the GSA invests in the student community. The GSA helps fund proposals that positively impact graduate students, promote multidisciplinary interactions, and align with the University's Eyes High strategic plan.

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### GSA Contact Information

The Graduate Students' Association  
1030 Earth Sciences  
844 Campus Place NW  
Calgary AB  
T2N 1N4  
Tel: 403.220.5997  
Fax: 403.282.8992 <http://www.gsa.ucalgary.ca>

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### GSA Office Hours

Tuesday to Thursday, 10am - 4pm (virtual: Monday 1pm - 3pm, Friday 9am - 11am)

## Academic Advising

For academic advising and support resources, refer to: [Advising | University of Calgary \(ucalgary.ca\)](#).

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# Anthropology and Archaeology; Department of Department

The Department of Anthropology and Archaeology is part of the Faculty of Arts.

For more information concerning program regulations and requirements, refer to the [Faculty of Arts](#). For contact information or current events, refer to the [Department of Anthropology and Archaeology](#).

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture, and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201 ([ANTH201 Intro Biological Anthropology](#)), 203([ANTH203 Introduction Social Anthropology](#)), and Archaeology 201 ([ARKY201 Introduction To Archaeology](#)).

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management. Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

The BSc in Anthropology (also known as biological anthropology) includes courses in paleoanthropology and bioanthropology, which investigate the origins of our species, variation, and adaptation in modern human populations, and the behaviour and ecology of other primate species. Laboratory-based courses examine casts of fossils from the earliest primates through to modern humans, and also human and primate genetics.

The BA in Anthropology focuses on social and cultural anthropology and adopts a cross-cultural perspective. Courses seek to foster an understanding and appreciation of the wide variety of cultures in the world and provide critical insights into how people actually live and how they negotiate the challenges created by globalization.

The Global Development Studies program is an interdisciplinary program designed to provide students with an understanding of the issues, policies, and practices associated with sustainable global and community development in the context of both Canada and internationally. Courses examine social, economic, environmental, and political change as well as issues of poverty, hunger, social justice, colonialism, participatory development, cultural beliefs, human rights, and governance. Students gain practical skills for designing, implementing, and effectively managing community development projects which prepares them for further studies as well as employment in governmental, non-governmental, and other international development-related fields in Canada and abroad.

African Studies: The Department offers a minor in African Studies.

## Programs

### Overview

General Program Information

### Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

#### Additional Comments:

#### Courses Constituting the Field of African Studies

##### Type

##### Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of African Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of African Studies

#### Additional Comments:

#### Program Requirements

##### Type

##### Completion Requirement

#### Specified Courses - Minor Program

**Earn at least 6 credits from the following:**

- Core: 3 units African Studies 201

#### Required Options - Minor Program

Complete 24 additional units from Courses Constituting the Field of African Studies including at least 6 units labelled African Studies (AFST).

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of African Studies

#### Additional Comments:

## Overview

### General Program Information

### Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

### Admissions

#### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

### Program Details

#### Simple Requisites

##### Faculty of Arts Requirement

###### Type

Completion Requirement

##### Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

##### Courses Constituting the Field of Anthropology

###### Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Anthropology

**Additional Comments:**

##### Program Requirements

###### Type

Completion Requirement

##### Specified Courses - Minor Program

**Earn at least 6 credits from the following:**

- 6 units Anthropology 201, 203

##### Required Options - Minor Program

Earn at least 24 credits from the following:

- Courses Constituting the Field of Anthropology
- With at least 15 units at the 300 level or above.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

The BA in Anthropology focuses on social and cultural anthropology and adopts a cross-cultural perspective. Courses seek to foster an understanding and appreciation of the wide variety of cultures in the world and provide critical insights into how people actually live and how they negotiate the challenges created by globalization.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Anthropology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

### Courses Constituting the Field of Anthropology

**Type**

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

**Earn at least 45 credits from the following:**

- Courses Constituting the Field of Anthropology

**Additional Comments:**

### Program Requirements

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 27 credits from the following:**

- Core: 15 units Anthropology 201, 203, 411, 490, Archaeology 201
- Ethnography: 6 units from African Studies 201, Anthropology 320, 321, 329, 355, 421\*; Archaeology 345, 399, 419, 439, Global Development Studies 403
- Upper-Year Courses: 6 units from Anthropology 400, 408, 410, 421\*, 441, 449, 466, 501, 523, 541

*\*Anthropology 421 may not be used to satisfy both the ethnography requirement and the Upper-Year Courses requirement.*

Major-Field - Required Options

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Anthropology

**Additional Comments:**

### Degree Options

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Honours Degrees

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

The BA in Anthropology focuses on social and cultural anthropology and adopts a cross-cultural perspective. Courses seek to foster an understanding and appreciation of the wide variety of cultures in the world and provide critical insights into how people actually live and how they negotiate the challenges created by globalization.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Anthropology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSC Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Anthropology

##### Type

Completion Requirement

Students must successfully complete a minimum of 57 units to a maximum of 72 units in Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

##### Earn at least 57 credits from the following:

- Courses Constituting the Field of Anthropology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 30 credits from the following:

- Core: 15 units Anthropology 201, 203, 411, 490, Archaeology 201
- Ethnography: 6 units from African Studies 201, Anthropology 320, 321, 329, 355, 421\*; Archaeology 345, 399, 419, 439, Global Development Studies 403
- Upper-Year Courses: 6 units from Anthropology 400, 408, 410, 421\*, 441, 449, 466, 501, 523, 541
- Capstone Honours Seminar: 3 units Anthropology 573

*\*Anthropology 421 may not be used to satisfy both the Ethnography requirement and the Upper-Year Courses requirement.*

#### Major-Field - Required Options

Earn at least 27 credits from the following:

- Courses Constituting the Field of Anthropology

Additional Comments:

### Degree Options

#### Type

#### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

The BSc in Anthropology (also known as biological anthropology) includes courses in paleoanthropology and bioanthropology, which investigate the origins of our species, variation, and adaptation in modern human populations, and the behaviour and ecology of other primate species. Laboratory-based courses examine casts of fossils from the earliest primates through to modern humans, and also human and primate genetics.

## Admissions

## Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BSc Anthropology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Program Details

#### Simple Requisites

##### Faculty of Arts Requirement

###### Type

Completion Requirement

##### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

##### Additional Comments:

##### Courses Constituting the Field of Anthropology

###### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

##### Earn at least 45 credits from the following:

- Courses Constituting the Field of Anthropology

##### Additional Comments:

##### Program Requirements

###### Type

Completion Requirement

##### Major-Field - Specified Courses

##### Earn at least 33 credits from the following:

- Core: 21 units Anthropology 201, 203, 305, 309, 311, 350, Archaeology 201.
- Upper-Year Courses: 12 units from Anthropology 400, 409, 412, 413, 425, 435, 441, 445, 449, 451, 505, 506, 534, 552, 553, 589; Archaeology 437, 453, 555, 595

##### Major-Field - Required Options

##### Earn at least 12 credits from the following:

- Courses Constituting the Field of Anthropology

## Other Requirements

Earn at least 3 credits from the following:

- Biology: 3 units from any 200- or 300-level Biology course

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

The BSc in Anthropology (also known as biological anthropology) includes courses in paleoanthropology and bioanthropology, which investigate the origins of our species, variation, and adaptation in modern human populations, and the behaviour and ecology of other primate species. Laboratory-based courses examine casts of fossils from the earliest primates through to modern humans, and also human and primate genetics.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BSc Anthropology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSc Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Anthropology

##### Type

Completion Requirement

Students must successfully complete a minimum of 57 units to a maximum of 72 units in Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

##### Earn at least 57 credits from the following:

- Courses Constituting the Field of Anthropology

#### Additional Comments:

#### Program Requirements

## Type

### Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 45 credits from the following:

- Core: 21 units Anthropology 201, 203, 305, 309, 311, 350, Archaeology 201.
- Upper-Year Courses: 12 units from Anthropology 400, 409, 412, 413, 425, 435, 441, 445, 449, 451, 505, 506, 534, 552, 553, 589; Archaeology 437, 453, 555, 595
- Honours Thesis: 6 units Anthropology 590

#### Major-Field - Required Options

##### Earn at least 18 credits from the following:

- Courses Constituting the Field of Anthropology

#### Other Requirements

##### Earn at least 6 credits from the following:

- Biology: 3 units from any 200- or 300-level Biology course
- Statistics: 3 units from Biology 315\*; Geography 485, 585; Psychology 300; Sociology 311, 315; Statistics 213, 217

*\*Biology 315 may not be used toward the Biology Requirement*

### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Additional Comments:

## Overview

### General Program Information

#### Specialization:

#### Biological

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students [website](#).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A minimum grade point average of 3.30 or higher on a four-point scale.
- b) An example of the applicant's written work: a term paper, research paper or other writing which the applicant considers representative of their best work.
- c) A concise statement outlining the applicant's academic interests and reasons for wishing to pursue graduate work in this Department. The thesis research area should be clearly identified.
- d) An up-to-date curriculum vitae.
- e) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements:

Candidates for the MA degree are normally required to complete a minimum of 12 units in Anthropology at the 600 level. At the discretion of the Graduate Studies Committee, students may be required to take a total of 15 units of course work in Anthropology. The following courses are required of all master's students:

[ANTH603 Thesis Development](#), [ANTH605 Prof Skills For Anthropologists](#), [ANTH611 Methods In Anth Research](#)

OR

[ANTH613 Issues Methodology & Primatology](#), [ANTH631 Anthropological Theory I](#), [ANTH635 Primatological Theory](#)

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

### Flexible Grade Option (CG Grade)

The program of Anthropology in the department of Anthropology and Archaeology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Anthropology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Only where appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses.

## Time Limit

Expected completion time is two years and maximum completion time is four years. See [G.D.6 Time Limits](#).

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

A supervisor is assigned to each student upon entering the program.

## Thesis Examination

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

## Financial Assistance

Financial assistance in the form of research and teaching assistantships is available to qualified students. Information on awards can be obtained from the Department office or in the [Awards and Financial Assistance](#) section of this Calendar. All students are strongly encouraged to seek external financial assistance for the program, as the Department of Anthropology and Archaeology cannot guarantee the availability of financial assistance.

Students applying for the Graduate Awards Competition scholarships must submit their applications to the Department by January 25.

## Overview

### General Program Information

### Specialization:

- [Biological](#)

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/anthropology-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/anthropology-doctor-philosophy-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A minimum grade point average of 3.40 or higher on a four-point scale.
- b) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) A specialization of either primatology, or social and cultural anthropology.
- b) **ANTH701 Independent Studies**, a reading course in the student's substantive area. Beyond that, the supervisory committee will individually tailor each student's course requirements to the student's particular needs.
- c) For social and cultural anthropology, field work for a minimum of one year. Students in primatology will be required to collect primary data via experimental and/or observational research on wild or captive primate populations for a period of not less than twelve months. The amount of time required for field work for students who started their field work between 2019 and 2021 may be revised with the approval of the students' supervisory committee.
- d) Demonstrated proficiency in a language other than English. Normally, in the course of the doctoral program, competent faculty in other Departments will evaluate the student's linguistic competence, principally in reading and writing.

#### Additional Program Requirements

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

### Flexible Grade Option (CG)

The program of Anthropology in the department of Anthropology and Archaeology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Anthropology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Only where appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses.

### Time Limits

Expected completion time is four years. Maximum completion time is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

A supervisor is assigned to each student upon entering the program.

### Candidacy

Doctoral students must complete a written thesis proposal, which will be evaluated by the supervisory committee. They must also pass oral and written Field of Study examinations and a second-language proficiency examination. For complete details of the candidacy requirements, see [antharky.ucalgary.ca/CandidacyRequirements](http://antharky.ucalgary.ca/CandidacyRequirements).

### Thesis Examination

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

### Financial Assistance

Financial assistance in the form of research and teaching assistantships is available to qualified students. Information on awards can be obtained from the Department office or in the [Awards and Financial Assistance](#) section of this Calendar. All students are strongly encouraged to seek external financial assistance for the program, as the Department of Anthropology and Archaeology cannot guarantee the availability of financial assistance.

Students applying for the Graduate Awards Competition scholarships must submit their applications to the Department by January 25.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](http://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirement

For Faculty of Arts Minor graduation requirements, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

#### Additional Comments:

#### Courses Constituting the Field of Archaeology

##### Type

##### Completion Requirement

Students must successfully complete at least 30 units to a maximum of 36 units from Courses Constituting the Field of Archaeology, while fulfilling the Program Requirements.

#### Earn at least 30 credits from the following:

- Courses Constituting the Field of Archaeology

#### Additional Comments:

#### Program Requirements

##### Type

##### Completion Requirement

#### Specified Courses - Minor Program

#### Earn at least 3 credits from the following:

- 3 units Archaeology 201

#### Required Options - Minor Program

#### Earn at least 27 credits from the following:

- Courses Constituting the Field of Archaeology

- With at least 15 units at the 300 level or above

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management. Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Archaeology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: **3. Faculty of Arts Regulations.**

**Additional Comments:**

### Courses Constituting the Field of Archaeology

**Type**

Completion Requirement

Students must successfully complete a minimum of 45 to a maximum of 60 units in Courses Constituting the Field of Archaeology while fulfilling the

**Earn at least 45 credits from the following:**

- Courses Constituting the Field of Archaeology

**Additional Comments:**

### Program Requirements

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 36 credits from the following:**

- Core: 12 units Archaeology 201, 451, Anthropology 201, 203
- Regional Archaeology: 6 units from Archaeology 303, 317, 321, 335, 341, 343, 395, 423, 437, 439
- Archaeological Techniques: 6 units from Archaeology 306\*, 415, 417, 453, 471, 506, 515, 555, Geography 412
- Ethnography and Ethnohistory: 6 units from Archaeology 307, 345, 399, 419; Anthropology 320, 321, 329, 355
- Advanced Seminar Courses: 6 units from Archaeology 503, 531, 591, 593, 595, Anthropology 523

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement, and the other 3 units count towards Archaeology Options.*

Major-Field - Required Options

**Earn at least 9 credits from the following:**

- Courses Constituting the Field of Archaeology

**Additional Comments:**

### Degree Options

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

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The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management. Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Archaeology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSc Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

#### Additional Comments:

#### Courses Constituting the Field of Archaeology

##### Type

Completion Requirement

BA students must successfully complete a minimum of 54 units to a maximum of 72 units in the Courses Constituting the Field of Archaeology while fulfilling the Program Requirements.

##### Earn at least 54 credits from the following:

- Courses Constituting the Field of Archaeology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 36 credits from the following:

- Core: 12 units Archaeology 201, 451, Anthropology 201, 203
- Regional Archaeology: 6 units from Archaeology 303, 317, 321, 335, 341, 343, 395, 423, 437, 439
- Archaeological Techniques: 6 units from Archaeology 306\*, 415, 417, 453, 471, 506, 515, 555, Geography 412
- Ethnography and Ethnohistory: 6 units from Archaeology 307, 345, 399, 419; Anthropology 320, 321, 329, 355
- Honours Thesis: 6 units Archaeology 590

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement, and the other 3 units count towards Archaeology Options.*

Major-Field - Required Options

Earn at least 15 credits from the following:

- Courses Constituting the Field of Archaeology

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement, and the other 3 units count towards Archaeology Options.*

Other Requirements

Earn at least 3 credits from the following:

- Statistics: 3 units from Geography 485, 585; Psychology 300; Sociology 311, 315; Statistics 213, 217

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

# UCalgary

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management. Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BSc Archaeology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Archaeology

##### Type

##### Completion Requirement

Students must successfully complete a minimum of 48 to a maximum of 60 units in Courses Constituting the Field of Archaeology while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Archaeology

#### Additional Comments:

#### Program Requirements

##### Type

#### Completion Requirement

##### Major-Field - Specified Courses

Earn at least 39 credits from the following:

- Core: 15 units: Archaeology 201, 451, Anthropology 201, 203, 350
- Regional Archaeology: 6 units from Archaeology 303, 317, 321, 335, 341, 343, 395, 423, 437, 439
- Archaeological Techniques: 6 units from Archaeology 306\*, 415, 417, 453, 471, 506, 515, 555, Geography 412
- Ethnography and Ethnohistory: 6 units from Archaeology 307, 345, 399, 419; Anthropology 320, 321, 329, 355
- Advanced Seminar Courses: 6 units from Archaeology 503, 531, 591, 593, 595, Anthropology 523

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement. The remaining 3 units count towards partial fulfillment of the Archaeology Options requirement.*

##### Major-Field - Required Options

Earn at least 9 credits from the following:

- Courses Constituting the Field of Archaeology

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement. The remaining 3 units count towards partial fulfillment of the Archaeology Options requirement.*

##### Other Requirements

Earn at least 48 credits from the following:

- Natural Science Emphasis: Inclusive of the courses used to fulfill Major-Field Specified Courses and Major-Field Required Options above, students must include in their degree a minimum of 48 units from the Courses with a Natural-Science Emphasis

#### Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

##### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management. Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Archaeology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSc Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

**Courses Constituting the Field of Archaeology**

**Type**

Completion Requirement

Students must successfully complete a minimum of 54 units and a maximum of 72 units in Courses Constituting the Field of Archaeology while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Archaeology

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Major-Field - Specified Courses**

**Earn at least 42 credits from the following:**

- Core: 15 units: Archaeology 201, 451, Anthropology 201, 203, 350
- Regional Archaeology: 6 units from Archaeology 303, 317, 321, 335, 341, 343, 395, 423, 437, 439
- Archaeological Techniques: 6 units from Archaeology 306\*, 415, 417, 453, 471, 506, 515, 555, Geography 412
- Ethnography and Ethnohistory: 6 units from Archaeology 307, 345, 399, 419; Anthropology 320, 321, 329, 355
- Honours Thesis: 6 units Archaeology 590

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement. The remaining 3 units count towards partial fulfillment of the Archaeology Options requirement.*

**Major-Field - Required Options**

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Archaeology

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement. The remaining 3 units count towards partial fulfillment of the Archaeology Options requirement.*

**Other Requirements**

**Earn at least 51 credits from the following:**

- Natural Science Emphasis: Inclusive of the courses used to fulfill Major-Field Specified Courses and Major-Field Required Options above, students must include in their degree a minimum of 48 units from the Courses with a Natural-Science Emphasis
- Statistics: 3 units from Geography 485, 585; Psychology 300; Sociology 311, 315; Statistics 213, 217

Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Additional Comments:

## Overview

### General Program Information

### Interdisciplinary Specialization:

- Biological

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/archaeology-master-arts-thesis-based>

In addition to Faculties of Graduate Studies and Arts **admission requirements**, the Department requires:

- A specimen of relevant written work (an honours essay, term paper, or seminar essay bearing the grade and initials of the supervising professor, the analysis chapter of a Master of Arts thesis or a published article where the applicant is the sole or senior author).
- A concise statement setting forth the reasons for wishing to pursue graduate work in this department.
- An up-to-date curriculum vitae.
- A 3.30 grade point average in the last two years of program or over the last 60 units.
- Two letters of reference from individuals able to evaluate academic potential.

## Program Details

### Simple Requisites

Program/Course Requirements

#### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Normally, 12 units including one of the following, as determined by the student's evaluation committee: [ARKY615 Topics in Arky Theory & Method](#) or [ARKY617 Theory & its Appl in Biol Anth.](#)

b) Two courses, which may include: [ANTH605 Prof Skills For Anthropologists](#), [ARKY601 Theoretical Foundations](#), a course in human osteology, or other courses as determined by the student's evaluation committee.

Complete at least 1 of the following courses:

- ARKY625 - Hunter-Gatherer Adaptations  
OR ARKY627 - Origins Of Agriculture  
OR ARKY631 - The Development of Complex Societies  
OR ARKY633 - Specialized Analyses of Archaeological Materials  
OR ARKY635 - Social Identity

d) A season of field work or the equivalent.

#### Additional Comments:

### Additional Requirements

During the first two weeks in program, each student will undergo an evaluation. This is not an examination but an assessment of academic background. The specific regulations and procedures covering evaluations and examinations are on file in the Department Office and are available to students. It is the responsibility of every student to become familiar with these regulations.

Field work may be counted towards fulfillment of the full-time study and research requirement.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The Department does not normally give [advanced credit](#).

### Flexible Grade Options (CG Grade)

The program of Archaeology in the department of Anthropology and Archaeology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Archaeology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Normally only courses at the 500 level or higher may be taken for credit toward a graduate program. No more than two courses may be at the 500 level.

### Time Limits

Expected completion time is two years. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Department assigns an interim advisor to each student upon arrival. At any time before the end of the first year of studies, each student must select a faculty member to serve as supervisor. The interim advisor may become the supervisor.

Doctoral supervisory committees may be appointed at any time during the first year of studies, but no later than three months after the appointment of the supervisor. The supervisor, in consultation with the student, selects the committee.

## Thesis Examination

Final thesis oral examinations are open.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance in the form of research and teaching assistantships may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competition scholarships must submit their applications to the Department by January 25.

Funding is provided to students so that they can concentrate on their courses and research. Therefore, a graduate student is not allowed to work for more than 15 hours a week while holding departmental funding. Failure to abide by this policy will result in a decrease in or cancellation of departmental funding.

## Overview

### General Program Information

Interdisciplinary Specialization:

- [Biological](#)

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/archaeology-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Arts [admission requirements](#), the Department requires:

- a) A specimen of relevant written work (an honours essay, term paper, or seminar essay bearing the grade and initials of the supervising professor, the analysis chapter of a Master of Arts thesis or a published article where the applicant is the sole or senior author).
- b) A concise statement setting forth the reasons for wishing to pursue graduate work in this department.
- c) An up-to-date curriculum vitae.
- d) A 3.30 grade point average in the last two years of program or over the last 60 units.
- e) Two letters of reference from individuals able to evaluate academic potential.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) Normally, 18 units in Archaeology.
- b) For those without a Master of Arts degree, normally 24 units.

Note: The number of courses required of each student may vary according to each student's particular needs as determined by the supervisory committee.

c) Unless previously satisfied, [ARKY601 Theoretical Foundations](#) and one of the following: [ARKY615 Topics in Arky Theory & Method](#) [ARKY617 Theory & its Appl in Biol Anth.](#)

d) Two of: Archaeology [ARKY625 Hunter-Gatherer Adaptations](#), [ARKY627 Origins Of Agriculture](#), [ARKY631 The Dev of Complex Societies](#), [ARKY633 Spec Analyses Arky Materials](#), [ARKY635 Social Identity](#).

e) [ANTH605 Prof Skills ForAnthropologists](#) or its equivalent.

Other courses will be required as determined by the student's evaluation committee.

f) A research proposal approved by a committee consisting minimally of three members of the student's supervisory committee, and by the Graduate Program Director. This must be submitted within twenty months of entering the program.

g) A reading ability in a foreign language acceptable to the Department. The student's supervisory committee will decide the manner of demonstrating this ability.

Requirements (a) through (g) must be completed before sitting the written and oral components of the candidacy examination.

h) Normally, two seasons of field work. However, students specializing in laboratory-based topics, like physical anthropology, may substitute an approved program of laboratory work for one of the field work seasons. Students specializing in laboratory-based topics, like physical anthropology, who started their field work between 2019 and 2021 may substitute one or more field work seasons with the approval of their supervisory committee.

During the first two weeks in program, each student will undergo an evaluation. This is not an examination but an assessment of academic background. The specific regulations and procedures covering evaluations and examinations are on file in the Department Office and are available to students. It is the responsibility of every student to become familiar with these regulations.

Field work may be counted towards fulfillment of the full-time study and research requirement.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The Department does not normally give advanced credit.

### Flexible Grade Option (CG Grade)

The program of Archaeology in the department of Anthropology and Archaeology will not permit the Flexible Grade Option (CG Grade) for any course offered by the Archaeology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Normally only courses at the 500 level or higher may be taken for credit toward a graduate program. No more than two courses may be at the 500 level.

### Time Limit

Expected completion time is four years and maximum completion time is six years for the doctoral degree.

### Other Information

The Department has laboratories equipped for anthropometric and osteological analysis, faunal analysis, and microbotanical and geoarchaeological research. A number of teaching and comparative archaeological and zooarchaeological collections are maintained. Field equipment including survey, photographic and camping equipment is available.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The Department assigns an interim advisor to each student upon arrival. At any time before the end of the first year of studies, each student must select a faculty member to serve as supervisor. The interim advisor may become the supervisor.

Doctoral supervisory committees may be appointed at any time during the first year of studies, but no later than three months after the appointment of the supervisor. The supervisor, in consultation with the student, selects the committee.

### Required Examinations

#### Candidacy

Doctoral students must complete a written thesis proposal, which will be evaluated by the supervisory committee. They must also pass oral and written Field of Study examinations and a second-language proficiency examination. For complete details of the candidacy requirements, see <https://antharky.ucalgary.ca/CandidacyRequirements>.

#### Thesis Examination

Final thesis oral examinations are open.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance in the form of research and teaching assistantships may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competition scholarships must submit their applications to the Department by January 25.

Funding is provided to students so that they can concentrate on their courses and research. Therefore, a graduate student is not allowed to work for more than 15 hours a week while holding departmental funding. Failure to abide by this policy will result in a decrease in or cancellation of departmental funding.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirement

#### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

Additional Comments:

## Courses Constituting the Field of Global Development Studies

### Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of Global Development Studies while fulfilling the Program Requirements.

Earn at least 30 credits from the following:

- Courses Constituting the Field of Global Development Studies

Additional Comments:

## Program Requirements

### Type

Completion Requirement

Specified Courses - Minor Program

Earn at least 3 credits from the following:

- 6 units Global Development Studies 201, 393

Required Options - Minor Program

An additional 24 units from Courses Constituting the Field of Global Development Studies with at least 18 units at the 300 level or above and at least 3 units labelled Global Development Studies (DEST).

Earn at least 24 credits from the following:

- Courses Constituting the Field of Global Development Studies

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Global Development Studies program is an interdisciplinary program designed to provide students with an understanding of the issues, policies, and practices associated with sustainable global and community development in the context of both Canada

and internationally. Courses examine social, economic, environmental, and political change as well as issues of poverty, hunger, social justice, colonialism, participatory development, cultural beliefs, human rights, and governance. Students gain practical skills for designing, implementing, and effectively managing community development projects which prepares them for further studies as well as employment in governmental, non-governmental, and other international development-related fields in Canada and abroad.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Global Development Studies Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

#### Courses Constituting the Field of Global Development Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of Development Studies and fulfill the Program requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Global Development Studies

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

Major-Field - Specified Courses

Earn at least 15 credits from the following:

- Core Courses: 9 units Global Development Studies 201, 302, 393
- Research Methods: 3 units from Anthropology 411, Communication and Media Studies 313, Geography 483, Political Science 397, 398, 399, Sociology 311, 313, Statistics 213, Sustainability Studies 401
- Capstone Seminar: 3 units Global Development Studies 591

Major-Field - Required Options

Earn at least 27 credits from the following:

- Courses Constituting the Field of Global Development Studies

Major-Field - Required DEST Options

Earn at least 6 credits from the following:

- All courses labelled Global Development Studies (DEST) at the 400 level or above

Other Requirements

Earn at least 6 units from the following:

- **Language:** 6 units in modern languages other than English. Students should select a language or languages that will assist in their research or complement a regional focus.

Additional Comments:

#### Degree Options

##### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Global Development Studies program is an interdisciplinary program designed to provide students with an understanding of the issues, policies, and practices associated with sustainable global and community development in the context of both Canada and internationally. Courses examine social, economic, environmental, and political change as well as issues of poverty, hunger, social justice, colonialism, participatory development, cultural beliefs, human rights, and governance. Students gain practical skills for designing, implementing, and effectively managing community development projects which prepares them for further studies as well as employment in governmental, non-governmental, and other international development-related fields in Canada and abroad.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Global Development Studies Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSc Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

## Courses Constituting the Field of Global Development Studies

### Type

Completion Requirement

Students must successfully complete a minimum of 54 units in Courses Constituting the Field of Development Studies and fulfill the Program requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Global Development Studies

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 18 credits from the following:**

- Core Courses: 9 units Global Development Studies 201, 302, 393
- Research Methods: 3 units from Anthropology 411, Communication and Media Studies 313, Geography 483, Political Science 397, 398, 399, Sociology 311, 313, Statistics 213, Sustainability Studies 401
- Capstone Seminar: 3 units Global Development Studies 591
- Honours Seminar: 3 units Global Development Studies 593

Major-Field - Required Options

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Global Development Studies

Major-Field - Required DEST Options

**Earn at least 6 credits from the following:**

- All courses labelled Global Development Studies (DEST) at the 400 level or above

Other Requirements

**Earn at least 6 units from the following:**

- **Language:** 6 units in modern languages other than English. Students should select a language or languages that will assist in their research or complement a regional focus.

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Art and Art History; Department of Department

The Department of Art and Art History is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Art and Art History](#).

### Programs

#### Overview

General Program Information

Contact Information

Website: [arts.ucalgary.ca/art-art-history/art-and-art-history-home](https://arts.ucalgary.ca/art-art-history/art-and-art-history-home).

For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

#### Introduction

The Department of Art and Art History is committed to the study and practice of the visual arts as these relate to:

- (a) Creative research in art practices (studio);
- (b) Educational practice and theory (Art Education); and
- (c) Critical study of art in its diverse historical and cultural settings (Art History).

The Department offers the four-year BFA and BFA Honours (Visual Studies) degree, the four year BA in Art History, and a five-year concurrent degree program with the Werklund School of Education, leading to the BFA (Visual Studies) and Bachelor of Education degrees.

The Visual Studies program provides a core of work in the theory and methodology of art education, as well as a foundation in studio art and Art History. Students interested in teacher certification should pursue the concurrent degree program with the Werklund School of Education, which offers three years of study in the Visual Studies program and two years in the Bachelor of Education program.

The BA (Art History) engages students in critical and creative analysis of art objects and cultural forms in a variety of historical, geopolitical, and cultural contexts.

### Admissions

Program Admissions Information

Prospective students wishing to enter the BA (Art History) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

##### Additional Comments:

#### Courses Constituting the Field of Art History

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Art History while fulfilling the Program Requirements.

##### Earn at least 42 credits from the following:

- Courses Constituting the Field of Art History

##### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major Field Specified Courses

##### Earn at least 30 credits from the following:

- Core Courses: 15 units Art History 201, 203, 211, 431, 511
- Core Courses: 3 units from Art History 331, 333, 357
- Art History: 12 units in courses labelled Art History (ARHI)

#### Major-Field Required Options

##### Earn at least 12 credits from the following:

- Courses Constituting the Field of Art History

#### Other Requirements

##### Earn at least 12 credits from the following:

- English: 6 units in courses labelled English (ENGL)
- Art: 6 units in courses labelled Art (ART)

## Additional Comments:

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Overlapping Programs

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees, and Second Baccalaureate Degrees.

## Additional Comments:

## Overview

### General Program Information

Students applying for the MFA degree offered by the Department of Art may choose to identify one of the following formal specializations:

#### Specializations:

- Sculpture
- Printmaking
- Photography
- Painting
- Drawing
- Media Art and Technology

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [art.ucalgary.ca/graduate](http://art.ucalgary.ca/graduate)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website at <http://ucalgary.ca/future-students/graduate/explore-programs/art-master-fine-arts-thesis-based>.

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) A four-year Bachelor of Fine Arts degree or equivalent qualification.

- b) A portfolio of 20 images of recent work submitted as a single PDF file. Up to five minutes of video documentation may be submitted as links within this document.
- c) A written statement (no more than 1000 words) of research intent.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

The program core for all Master of Fine Arts students is a minimum of 24 units. Within the first twelve months of the program each student must complete 6 units of 600-level studio course; 6 units of 600-level graduate seminar and Art 605. Three units of 600-level graduate seminar and 6 units of 600-level studio course must be completed in the second twelve months of the program. In some circumstances, the Department may require a student to complete more than the mandatory 24 units.

Typical course sequence is the following:

Year 1:

**Complete ALL of the following Courses:**

- ART605 - Critical Study and Research  
**AND** ART609 - Art Theory and Criticism  
**AND** ART611 - Research Methods in Art  
**AND** ART661.01 - Advanced Studio Practice I  
**AND** ART661.02 - Advanced Studio Practice II

Year 2:

**Complete ALL of the following Courses:**

- ARHI615 - Conference Course in Art History  
**AND** ART661.03 - Advanced Studio Practice III  
**AND** ART661.04 - Advanced Studio Practice IV

**Additional Comments:**

#### Additional Program Requirements

##### Type

Completion Requirement

**Additional Comments:**

### Flexible Grade Option (CG Grade)

The department of Art will not permit the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Expected completion time for the Master of Fine Arts degree is two years. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Each new student is assigned an interim advisor to assist in the planning of the academic program and in orienting the student to the Department's physical and academic resources. A permanent supervisor is appointed by January 1 of the first academic year of registration. The approval of a permanent supervisor, by the Graduate Program Director, is made after consultation with the student. Supervisors work closely with students in all phases of the program; they have the principal responsibility in assessing the student's performance, and advising the Department Head of the student's progress.

Once the student has finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and one internal or external member. If the student has a co-supervisor, then one additional member is still required. See [Supervision](#) for more information.

## Required Examinations

### Thesis Examination

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must submit their applications to the Department of Art by January 15.

## Overview

### General Program Information

### Contact Information

Website: [arts.ucalgary.ca/art-art-history/art-and-art-history-home](https://arts.ucalgary.ca/art-art-history/art-and-art-history-home).

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

### Overlapping Programs

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees, and Second Baccalaureate

Degrees.

## Introduction

The Department of Art and Art History is committed to the study and practice of the visual arts as these relate to:

- (a) Creative research in art practices (studio);
- (b) Educational practice and theory (Art Education); and
- (c) Critical study of art in its diverse historical and cultural settings (Art History).

The Minor in Museum and Heritage Studies program is intended to develop a critical and analytical perspective on the issues and future of museum and heritage resources. These encompass national parks and heritage sites, museums and art galleries, archives and historic buildings.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirement

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Museum and Heritage Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units from the Field of Museum and Heritage Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Museum and Heritage Studies

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Specified Courses - Minor Program

**Earn at least 12 credits from the following:**

- Museum and Heritage Studies 201, 331, 433, 533

## Required Options - Minor Program

An additional 18 units from Courses Constituting the Field of Museum and Heritage Studies with at least 9 units at the 300 level or above.

### Earn at least 18 credits from the following:

- Courses Constituting the Field of Museum and Heritage Studies

## Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/art-art-history/art-and-art-history-home](https://arts.ucalgary.ca/art-art-history/art-and-art-history-home)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

Students wishing to pursue the concurrent BFA (Visual Studies)/BEd degree program should also consult with an advisor at the Werklund School of Education. Advising contact information can be found online: [werklund.ucalgary.ca/educ\\_info/contact-us](https://werklund.ucalgary.ca/educ_info/contact-us).

## Introduction

The Department of Art is committed to the study and practice of the visual arts as these relate to:

- (a) Creative research in art practices (studio);
- (b) Critical study of art in its diverse historical and cultural settings (Art History);
- (c) Theory and practice of collecting, preserving, and exhibiting art and cultural objects (Museum and Heritage Studies); and
- (d) Educational practice and theory (Art Education).

The Department offers the four-year BFA and BFA Honours (Visual Studies) degree, the four year BA in Art History, and a five-year concurrent degree program with the Werklund School of Education, leading to the BFA (Visual Studies) and Bachelor of Education degrees.

Students in the four year BFA and BFA Honours (Visual Studies) are involved in creative research and visual art practices that engage with contemporary society. The courses of study enable the student to develop conceptual understanding in the visual arts, to develop a foundation of knowledge and practice of artistic self-sufficiency, to develop creative processes of planning in order to carry out their various studio interests, and to teach art in the elementary or secondary school systems or to work as art specialists in other settings. The program enables the individual student to determine through studio practice the understandings and insights that support their own artistic and intellectual development. The Honours degree in Visual Studies is an advanced undergraduate program for students seeking a more focused studio experience, aspiring to careers as practicing and professional artists, or considering further graduate level study in an MFA program. A high standard of creative achievement is required for admission, continuation, and completion.

Students in the BFA or BFA Honours (Visual Studies) may choose a Concentration in Art Education. A concentration in Art Education does not provide students with the credentials required to teach in the public school system in Alberta. It is meant to provide students with skills and knowledge that would prepare them to teach art in informal, community-based settings.

The Concurrent BFA in Visual Studies/Bachelor of Education (BFA/BEd) enables students to complete two degree options.

Students interested in teacher certification should pursue the concurrent degree program with the Werklund School of Education, which offers three years of study in the Visual Studies program and two years in the Bachelor of Education program.

Students enrolled in the BFA VIST or BFA VIST (Hon) have the option to include the Co-operative Education program. This program enables students to integrate relevant professional and work experience into their degree.

## Admissions

### Program Admissions Information

Prospective students wishing to enter the BFA in Visual Studies must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Admission to the BFA (Visual Studies) program is contingent on the evaluation of a portfolio and statement of interest. For information about the portfolio submission process, see the Department of Art and Art History website at: [arts.ucalgary.ca/art-art-history/future-students/undergraduate/upload-your-portfolio](https://arts.ucalgary.ca/art-art-history/future-students/undergraduate/upload-your-portfolio).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

**Additional Comments:**

#### Courses Constituting the Field of Art

##### Type

Completion Requirement

The BFA in Visual Studies requires the successful completion of a minimum of 69 units to a maximum of 81 units in Courses Constituting the Field of Art while fulfilling the Program Requirements.

**Earn at least 69 credits from the following:**

- All courses labelled Art (ART), and Art History (ARHI), and Museum and Heritage Studies (MHST)

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

#### Core Courses

**Earn at least 45 credits from the following:**

- Studio Foundations: 12 units from courses labelled Art (ART) at the 200 level
- Interdisciplinary Art Field: 6 units from Art History 201, Art History 203, or Museum and Heritage Studies 201
- Interdisciplinary Art Field: 15 units from Art History or Museum and Heritage Studies at the 300 level or

- above
- Professional Practice: 6 units from Art 400 and 402
- Advanced Studio: 6 units from Art 564 and 565

#### Art Options

Earn at least 24 credits from the following:

- 18 units from Courses Constituting the Field of Art at the 300 level or above
- 6 units from Art 414, 420, 421, 436, 438, 445, 455, 475, 485

#### Other Requirements

Earn at least 3 credits from the following:

- 3 units in a course labelled English (ENGL)

**Additional Comments:**

#### Concentration in Art Education

##### Type

##### Completion Requirement

#### Concentration in Art Education

Students may focus their BFA in Visual Studies by including a specified set of courses in their Major or Honours degree. The designation "Art Education Concentration" will appear on the transcripts of Majors who have completed the following courses in fulfillment of their BFA (Visual Studies) degree:

Earn at least 21 credits from the following:

- 9 units Art 309, 342, 344
- 6 units Art 411, 491
- 3 units Art 509
- 3 units Arts 507

**Additional Comments:**

#### Concurrent BFA (Visual Studies)/BEd

##### Type

##### Completion Requirement

#### Concurrent BFA (Visual Studies)/BEd

### Introduction

This five-year program leads to a Bachelor of Education from the Werklund School of Education and a Bachelor of Fine Arts in Visual Studies from the Faculty of Arts. A minimum of 150 units must be successfully completed.

### Admission

Students must meet the admissions requirements for the Werklund School of Education and the BFA (Visual Studies) program (see Admission to the BFA in Visual Studies on the Admission tab) as well as the requirements of the Faculty of Arts (see [A.5 Undergraduate Degree Admission Requirements](#)). Note that admission to the BFA (Visual Studies) program is contingent on the evaluation of a portfolio (see Admission to the BFA in Visual Studies on the Admission tab).

### Faculty of Arts Graduation Requirements for the BFA Visual Studies/BEd Concurrent degree

Students must adhere to the applicable "Faculty of Arts Requirements - Major Degree Requirements".

## Program Requirements

For students completing the Concurrent BFA (Visual Studies)/BEd, these requirements will replace the Program Requirements above.

**Complete ANY of the following Requirement Sets:**

- Concurrent BFA (Visual Studies)/BEd Program Requirements

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Concentration in Art Education
- Faculty of Arts - Honours Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees, and Second Baccalaureate Degrees.

**Additional Comments:**

## Overview

### General Program Information

### Contact Information

Website: [arts.ucalgary.ca/art-art-history/art-and-art-history-home](https://arts.ucalgary.ca/art-art-history/art-and-art-history-home)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

Students wishing to pursue the concurrent BFA (Visual Studies)/BEd degree program should also consult with an advisor at the Werklund School of Education. Advising contact information can be found online: [werklund.ucalgary.ca/educ\\_info/contact-us](https://werklund.ucalgary.ca/educ_info/contact-us).

## Introduction

The Department of Art is committed to the study and practice of the visual arts as these relate to:

- (a) Creative research in art practices (studio);
- (b) Critical study of art in its diverse historical and cultural settings (Art History);
- (c) Theory and practice of collecting, preserving, and exhibiting art and cultural objects (Museum and Heritage Studies); and
- (d) Educational practice and theory (Art Education).

The Department offers the four-year BFA and BFA Honours (Visual Studies) degree, the four year BA in Art History, and a five-year concurrent degree program with the Werklund School of Education, leading to the BFA (Visual Studies) and Bachelor of Education degrees.

Students in the four year BFA and BFA Honours (Visual Studies) are involved in creative research and visual art practices that engage with contemporary society. The courses of study enable the student to develop conceptual understanding in the visual arts, to develop a foundation of knowledge and practice of artistic self-sufficiency, to develop creative processes of planning in order to carry out their various studio interests, and to teach art in the elementary or secondary school systems or to work as art specialists in other settings. The program enables the individual student to determine through studio practice the understandings and insights that support their own artistic and intellectual development. The Honours degree in Visual Studies is an advanced undergraduate program for students seeking a more focused studio experience, aspiring to careers as practicing and professional artists, or considering further graduate level study in an MFA program. A high standard of creative achievement is required for admission, continuation, and completion.

Students in the BFA or BFA Honours (Visual Studies) may choose a Concentration in Art Education. A concentration in Art Education does not provide students with the credentials required to teach in the public school system in Alberta. It is meant to provide students with skills and knowledge that would prepare them to teach art in informal, community-based settings.

The Concurrent BFA in Visual Studies/Bachelor of Education (BFA/BEd) enables students to complete two degree options. Students interested in teacher certification should pursue the concurrent degree program with the Werklund School of Education, which offers three years of study in the Visual Studies program and two years in the Bachelor of Education program.

Students enrolled in the BFA VIST or BFA VIST (Hon) have the option to include the Co-operative Education program. This program enables students to integrate relevant professional and work experience into their degree.

## Admissions

### Program Admissions Information

#### Admission to the BFA in Visual Studies

Admission to the BFA (Visual Studies) program is contingent on the evaluation of a portfolio, which must be received by the department by February 1. For information about the portfolio submission process, see the Department of Art and Art History website: [arts.ucalgary.ca/art-art-history/future-students/undergraduate/upload-your-portfolio](https://arts.ucalgary.ca/art-art-history/future-students/undergraduate/upload-your-portfolio).

Prospective students must also meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

#### Admission to BFA Honours

Students wishing to be considered for admission into BFA Honours in Visual Studies must have completed 75 units and must meet the criteria established by the Faculty of Arts in section **3.3.2 Honours Degrees**

The Faculty of Arts procedures for Admission to Honours established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework.

Students majoring in Visual Studies are eligible to apply for Honours by the February 1 deadline only if they will complete the program during the following academic year. In addition to applying through the Student Centre for a change of program to Honours, students must submit a Letter of Intent and a portfolio of work to the Department of Art and Art History. Information on the supplemental components can be found on the Department of Art and Art History website. The department's application form must be signed by a thesis supervisor and include a preliminary thesis proposal. To meet the February 1 deadline, it is recommended that students wishing to enrol in the Honours program obtain guidelines and an application form from the Program Co-ordinator no later than December 1. Students are strongly advised to secure a thesis supervisor by December 15.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

## Completion Requirement

### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Combined Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

### Additional Comments:

## Courses Constituting the Field of Art

### Type

### Completion Requirement

The BFA Honours in Visual Studies requires the successful completion of a minimum of 81 to a maximum of 90 units in Courses Constituting the Field of Art while fulfilling the Program Requirements

**Earn at least 78 credits from the following:**

- All courses labelled Art (ART), and Art History (ARHI), and Museum and Heritage Studies (MHST)

### Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Core Courses

**Earn at least 51 credits from the following:**

- Studio Foundations: 12 units from courses labelled Art (ART) at the 200 level
- Interdisciplinary Art Field: 6 units from Art History 201, Art History 203, or Museum and Heritage Studies 201
- Interdisciplinary Art Field: 15 units from Art History or Museum and Heritage Studies at the 300 level or above; or Art 309, 342, 344
- Professional Practice: 6 units from Art 400 and 402
- Advanced Studio: 12 units from Art 560, 561, 563 and 564

#### Art Options

**Earn at least 27 credits from the following:**

- 21 units from Courses Constituting the Field of Art at the 300 level or above
- 6 units from Art 414, 420, 421, 436, 438, 445, 455, 475, 485

#### Other Requirements

**Earn at least 3 credits from the following:**

- 3 units in a course labelled English (ENGL)

### Additional Comments:

## Concentration in Art Education

## Type

### Completion Requirement

#### Concentration in Art Education

Students may focus their BFA in Visual Studies by including a specified set of courses in their Major or Honours degree. The designation "Art Education Concentration" will appear on the transcripts of Majors who have completed the following courses in fulfillment of their BFA (Visual Studies) degree:

#### Earn at least 21 credits from the following:

- 9 units Art 309, 342, 344
- 6 units Art 411, 491
- 3 units Art 509
- 3 units Arts 507

### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Concentration in Art Education
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees, and Second Baccalaureate Degrees.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/art-art-history/art-and-art-history-home](https://arts.ucalgary.ca/art-art-history/art-and-art-history-home).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Overlapping Programs

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees, and Second Baccalaureate Degrees.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction includes Major-plus-Minor combinations.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Art

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Art while fulfilling Program Requirements.

**Earn at least 30 credits from the following:**

- All courses labelled Art (ART), and Art History (ARHI), and Museum and Heritage Studies (MHST)

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Required Courses -Minor Program

30 units from Courses Constituting the Field of Art with at least 18 units at the 300 level or above

**Earn at least 30 credits from the following:**

- All courses labelled Art (ART) and Art History (ARHI)

**Additional Comments:**

## Bachelor of Health Sciences Office Department

The Bachelor of Health Sciences is a program offered by the Cumming School of Medicine.

For more information concerning program regulations and requirements, refer to [Cumming School of Medicine](#). For contact information or current events, refer to [Bachelor of Health Sciences](#).

### Programs

#### Overview

General Program Information

#### Contact Information

Location: Health Sciences Centre G503

Student Information: 403.210.9730

Email address: [bhsc@ucalgary.ca](mailto:bhsc@ucalgary.ca)

Website: [cumming.ucalgary.ca/bhsc/](http://cumming.ucalgary.ca/bhsc/)

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Co-ordinated by the Cumming School of Medicine and in co-operation with the Faculties of Science and Arts, the Cumming School of Medicine offers an undergraduate degree in Health Sciences, the Bachelor of Health Sciences Honours (BHSc Honours), consisting of three majors (Bioinformatics, Biomedical Sciences and Health and Society). Because of the admissions standard and GPA requirements, it is expected that most students will attain Honours standing.

A Health Sciences Minor is available in [HSOC](#).

A [BINF](#) Minor is also available.

### Faculty Student Affairs

Inquiries related to Faculty Regulations BHSc Admissions and BHSc course requirements should be directed to the Program Co-ordinator for the BHSc Office. Contact information may be found at: [cumming.ucalgary.ca/bhsc/contact-us](http://cumming.ucalgary.ca/bhsc/contact-us).

### Admissions

#### Program Admissions Information

There are approximately 100 first-year students granted admissions each year across the various Majors. Admission is based both on the admission requirements listed below and the Supplementary Application score.

Applicants must submit both a completed Bachelor of Health Sciences Supplementary Application and a University of Calgary Application for Admission. Students are directed to the online Supplementary Application after the Application for Admission to the Bachelor of Health Sciences program is submitted.

#### Year 1 Admission

Admission to Year 1 is normally limited to those who meet the requirements set out below and have completed no more than 6 units transferable courses from a recognized post-secondary institution. Those with more than 6 units may be required to apply to Year 2.

(a) To be considered for admission applicants must present the admission requirements as outlined in [A.5.1.1 Admission Requirements](#) and complete the *Online Supplementary Application* by the deadlines indicated in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

(b) Admission is competitive. Therefore, meeting the minimum standards as set out in (a) does not guarantee admission.

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's [Student Centre](#).

(e) BHSc applicants will be considered for Early Admission. Incomplete files will not be reviewed. Applicants currently in high school should refer to Early Admission Process for High School Students in [A.5.1.3](#) in the Admissions section of this Calendar for details. It is to the applicant's advantage to apply for admission and submit the supplementary information as early as possible.

## Year 2 Admission

(a) Meet the deadlines as outlined in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

Summer Term (Spring/Summer Intersession) courses completed in the year of application will not be considered.

(b) Admission is competitive and seats are limited. Students must have completed at least 24 units by the end of the Winter Term in the year of application (12 units completed by the end of the Fall Term) of which a minimum of 12 units must be from the following courses:

Biology 241, 243, Computer Science 231 (or 217), 233 (or 219), Mathematics 265 (249), 267, Chemistry 201, 203

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's [Student Centre](#).

(e) BHSc applicants will be reviewed once a completed application (transcripts and supplementary application) has been received. Incomplete files will not be reviewed. It is to the applicant's advantage to apply for admission and submit all necessary transcripts, including the supplementary information, as early as possible.

(f) Transfer students who are admitted must take all required courses except for Medical Science 203 and 205, which will each be replaced with an open option.

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

Completion Requirement

#### Faculty Regulations

Students in the Cumming School of Medicine are governed by the regulations in this section of the Calendar as well as by the general University regulations in the sections titled [Admissions](#) and [Academic Regulations](#). For the precise interpretation of any statement or regulation, students should feel free to contact the Associate Dean (Undergraduate Health and Science Education), the O'Brien Centre for the BHSc Office, Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all undergraduate BHSc student affairs in the School.

#### Enrolment Limitations

Enrolment limits may be in effect for some courses in the Cumming School of Medicine and the Faculties of Science and Arts.

#### Immunization Requirements

All BHSc students are required to meet an immunization standard as outlined on the Student Immunization Form checklist. Documented proof of completion must be provided to the Immunization Co-ordinator or delegate prior to commencement of the program.

Throughout the BHSc program, students are required to ensure that immunizations are current and must provide proof of updates to the Cumming School of Medicine Immunization Co-ordinator. Failure to do so will result in students being removed from course-based research environments, or being placed in an alternate environment until such time as adequate proof has been provided. In the event of extenuating medical circumstances impacting immunization status, students may be accommodated in non-Alberta Health Services-affiliated environments. Please note that requirements may change during the program as determined by Alberta Health Services guidelines.

**Complete ALL of the following Requirement Sets:**

- Bachelor of Health Sciences - Degree Requirements
- Bachelor of Health Sciences - Course Selection and Registration

- Bachelor of Health Sciences - Assessment
- Bachelor of Health Sciences - Student Standing

For other regulations related to the Bachelor of Health Sciences Honours, see: [4. Bachelor of Health Sciences Honours](#).

## Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Specified Courses - Major Program

#### Complete ALL of the following Course Sets:

- Biology 241, 243
- Chemistry 201, 203, 351
- Mathematics 265 or 249, 267
- Statistics 321
- Computer Science 217 and 219; or 231 and 233(1); and 319 or 331
- Medical Science 201, 301, 341, 351, 403, and 6 units from 519, 523, 545
- Biochemistry 341 or 393
- Medical Science 203, 205, 308, 408(2), 508(3)
- Software Engineering 300

(1) Students with programming experience may register in Computer Science 235 in place of 231, 233. Students selecting this option must have approval from the Department of Computer Science. If a student does complete Computer Science 235, 3 units may be taken as an open option.

(2) Medical Science 203, 205, 308, 408 are to be taken in sequence through years one to three.

(3) Medical Science 402 and 417/419 cannot be taken in the same year as Medical Science 508.

#### Required Options - Major Program

#### Earn at least 30 credits from the following:

- 3 units Humanities Options(4): English 200-level, Philosophy 279 or Medical Science 305 or 307
- 15 units Core Option: At least 3 units must be in Biology, Biochemistry, Cellular, Molecular and Microbial Biology or Medical Science, and at least 3 units must be in Computer Science or Data Science (BINF)
- 3 units Open Option (BINF)
- 9 units Senior Option: any course at the 300 level or above (BINF)

(4) Acceptable courses from the Faculty of Arts to satisfy the Humanities Option may be selected from the following departments: Classics and Religion; English; Philosophy; School of Languages, Linguistics, Literatures and Cultures; or Medical Science 307 ([MDSC307 Science, Philosophy & Society](#)) or 309 ([MDSC309 Science and Politics](#)).

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ALL of the following Requirement Sets:

- Embedded Certificates

- Minor Programs

Additional Comments:

## Overview

General Program Information

## Contact Information

Location: Health Sciences Centre G503

Student Information: 403.210.9730

Email address: [bhsc@ucalgary.ca](mailto:bhsc@ucalgary.ca)

Website: [cumming.ucalgary.ca/bhsc/](http://cumming.ucalgary.ca/bhsc/)

Co-ordinated by the Cumming School of Medicine and in co-operation with the Faculties of Science and Arts, the Cumming School of Medicine offers an undergraduate degree in Health Sciences, the Bachelor of Health Sciences Honours (BHSc Honours), consisting of three majors (Bioinformatics, Biomedical Sciences and Health and Society). Because of the admissions standard and GPA requirements, it is expected that most students will attain Honours standing.

A Health Sciences Minor is available in [HSOC](#).

A [BINF](#) Minor is also available.

## Faculty Student Affairs

Inquiries related to Faculty Regulations BHSc Admissions and BHSc course requirements should be directed to the Program Co-ordinator for the BHSc Office. Contact information may be found at: [cumming.ucalgary.ca/bhsc/contact-us](http://cumming.ucalgary.ca/bhsc/contact-us).

## Admissions

### Program Admissions Information

There are approximately 100 first-year students granted admissions each year across the various Majors. Admission is based both on the admission requirements listed below and the Supplementary Application score.

Applicants must submit both a completed Bachelor of Health Sciences Supplementary Application and a University of Calgary Application for Admission. Students are directed to the online Supplementary Application after the Application for Admission to the Bachelor of Health Sciences program is submitted.

## Year 1 Admission

Admission to Year 1 is normally limited to those who meet the requirements set out below and have completed no more than 6 units transferable courses from a recognized post-secondary institution. Those with more than 6 units may be required to apply to Year 2.

(a) To be considered for admission applicants must present the admission requirements as outlined in [A.5.1.1 Admission Requirements](#) and complete the *Online Supplementary Application* by the deadlines indicated in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

(b) Admission is competitive. Therefore, meeting the minimum standards as set out in (a) does not guarantee admission.

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's [Student Centre](#).

(e) BHSc applicants will be considered for Early Admission. Incomplete files will not be reviewed. Applicants currently in high school should refer to Early Admission Process for High School Students in [A.5.1.3](#) in the Admissions section of this Calendar for details. It is to the applicant's advantage to apply for admission and submit the supplementary information as early as possible.

## Year 2 Admission

(a) Meet the deadlines as outlined in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

Summer Term (Spring/Summer Intersession) courses completed in the year of application will not be considered.

(b) Admission is competitive and seats are limited. Students must have completed at least 24 units by the end of the Winter Term in the year of application (12 units completed by the end of the Fall Term) of which a minimum of 12 units must be from the following courses:

Biology 241, 243, Chemistry 201, 203, Mathematics 249 (or 265), Physics 211 (or 221), 223

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's [Student Centre](#).

(e) BHSc applicants will be reviewed once a completed application (transcripts and supplementary application) has been received. Incomplete files will not be reviewed. It is to the applicant's advantage to apply for admission and submit all necessary transcripts, including the supplementary information, as early as possible.

(f) Transfer students who are admitted must take all required courses except for Medical Science 203 and 205, which will each be replaced with an open option.

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

Completion Requirement

#### Faculty Regulations

Students in the Cumming School of Medicine are governed by the regulations in this section of the Calendar as well as by the general University regulations in the sections titled [Admissions](#) and [Academic Regulations](#). For the precise interpretation of any statement or regulation, students should feel free to contact the Associate Dean (Undergraduate Health and Science Education), the O'Brien Centre for the BHSc Office, Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all undergraduate BHSc student affairs in the School.

### Enrolment Limitations

Enrolment limits may be in effect for some courses in the Cumming School of Medicine and the Faculties of Science and Arts.

### Immunization Requirements

All BHSc students are required to meet an immunization standard as outlined on the Student Immunization Form checklist. Documented proof of completion must be provided to the Immunization Co-ordinator or delegate prior to commencement of the program.

Throughout the BHSc program, students are required to ensure that immunizations are current and must provide proof of updates to the Cumming School of Medicine Immunization Co-ordinator. Failure to do so will result in students being removed from course-based research environments, or being placed in an alternate environment until such time as adequate proof has been provided. In the event of extenuating medical circumstances impacting immunization status, students may be accommodated in non-Alberta Health Services-affiliated environments. Please note that requirements may change during the program as determined by Alberta Health Services guidelines.

**Complete ALL of the following Requirement Sets:**

- Bachelor of Health Sciences - Degree Requirements
- Bachelor of Health Sciences - Course Selection and Registration

- Bachelor of Health Sciences - Assessment
- Bachelor of Health Sciences - Student Standing

For other regulations related to the Bachelor of Health Sciences Honours, see: [4. Bachelor of Health Sciences Honours](#).

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Biomedical Sciences Major Requirements

**Complete ALL of the following Course Sets:**

- Biology 241, 243
- Chemistry 201, 203, 351, 353
- Physics 211 or 221, 223
- 3 units English: any 200-level English
- Mathematics 249 or 265
- Biochemistry 341 or 393
- Medical Science 341, 351, 407
- Medical Science 203, 205, 308, 408(1)
- Medical Science 508(2)
- 3 units Humanities Option - from the departments of Classics and Religion; English; Philosophy; School of Languages, Linguistics, Literatures and Cultures; and Medical Science 307, 309
- 9 units Open Options
- 9 units Biomedical Option: any senior-level course offered by the Cumming School of Medicine, Faculty of Science, Anthropology 305, 311, 413, 435, 451, 523, 552, 553, 589, Archaeology 417, Geography 482, 485, 585, Psychology 300, 301, 365, 369, 375\*\*\*
- 15 units Core Option: Medical Science 301, 321, 402(2), 404, 415, 417(2), 419(2), 501, 503, 515, 519, 521, 523, 525, 541, 543, 545, 561, 565, 567, 569 and any Biochemistry course or any Cellular, Molecular and Microbial Biology course
- 12 units Senior Option: any course at the 300 level or above

(1)Medical Science 203, 205, 308, 408 are to be taken in sequence through years one to three.

(2)Medical Science 402 and 417/419 cannot be taken in the same year as Medical Science 508.

(3)Acceptable courses from the Faculty of Arts to satisfy the Humanities Elective may be selected from the following departments:

- Classics and Religion; English; Philosophy; School of Languages, Linguistics, Literatures and Cultures; and Medical Science 307, 309.

(4)Acceptable courses from the Faculty of Arts to satisfy the Biomedical Option are:

- Anthropology 305, 311, 413, 435, 451, 523, 552, 553, 589
- Archaeology 417
- Geography 482, 485, 585
- Psychology 300, 301, 365, 369, 375

Other courses from the Faculty of Arts may be considered on a case-by-case basis with the approval of the Biomedical Sciences Director.

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

## Degree options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Embedded Certificates
- Minor Programs

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Location: Health Sciences Centre G503

Student Information: 403.210.9730

Email address: [bhsc@ucalgary.ca](mailto:bhsc@ucalgary.ca)

Website: [cumming.ucalgary.ca/bhsc/](http://cumming.ucalgary.ca/bhsc/)

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A Health Sciences Minor is available in **HSOC**.

A **BINF** Minor is also available.

## Faculty Student Affairs

Inquiries related to Faculty Regulations BHSc Admissions and BHSc course requirements should be directed to the Program Co-ordinator for the BHSc Office. Contact information may be found at: [cumming.ucalgary.ca/bhsc/contact-us](http://cumming.ucalgary.ca/bhsc/contact-us).

## Admissions

### Program Admissions Information

There are approximately 100 first-year students granted admissions each year across the various Majors. Admission is based both on the admission requirements listed below and the Supplementary Application score.

Applicants must submit both a completed Bachelor of Health Sciences Supplementary Application and a University of Calgary Application for Admission. Students are directed to the online Supplementary Application after the Application for Admission to the Bachelor of Health Sciences program is submitted.

## Year 1 Admission

Admission to Year 1 is normally limited to those who meet the requirements set out below and have completed no more than 6 units transferable courses from a recognized post-secondary institution. Those with more than 6 units may be required to apply to Year 2.

(a) To be considered for admission applicants must present the admission requirements as outlined in **A.5.1.1 Admission Requirements** and complete the *Online Supplementary Application* by the deadlines indicated in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

(b) Admission is competitive. Therefore, meeting the minimum standards as set out in (a) does not guarantee admission.

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's **Student Centre**.

(e) BHSc applicants will be considered for Early Admission. Incomplete files will not be reviewed. Applicants currently in high school should refer to Early Admission Process for High School Students in **A.5.1.3** in the Admissions section of this Calendar for details. It is to the applicant's advantage to apply for admission and submit the supplementary information as early as possible.

## Year 2 Admission

(a) Meet the deadlines as outlined in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

Summer Term (Spring/Summer Intersession) courses completed in the year of application will not be considered.

(b) Admission is competitive and seats are limited. Students must have completed at least 24 units by the end of the Winter Term in the year of application (12 units completed by the end of the Fall Term) of which a minimum of 12 units must be from the following courses:

Biology 241, 243, Health and Society 201, any 200-level 3-unit English course, Psychology 200, 201, Sociology 201, Anthropology 203, Geography 254, Economics 201, 203, any 200-level Political Science course, Community Rehabilitation 205, 207

*\*Students considering the Health Economics concentration in the BHSc Honours are strongly encouraged to complete both Economics 201 and 203, as they are prerequisites for most 300-level Economics courses.*

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's **Student Centre**.

(e) BHSc applicants will be reviewed once a completed application (transcripts and supplementary application) has been received. Incomplete files will not be reviewed. It is to the applicant's advantage to apply for admission and submit all necessary transcripts, including the supplementary information, as early as possible.

(f) Transfer students who are admitted must take all required courses except for Medical Science 203 and 205, which will each be replaced with an open option.

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

Completion Requirement

#### Faculty Regulations

Students in the Cumming School of Medicine are governed by the regulations in this section of the Calendar as well as by the general University regulations in the sections titled **Admissions** and **Academic Regulations**. For the precise interpretation of any statement or regulation, students should feel free to contact the Associate Dean (Undergraduate Health and Science Education), the O'Brien Centre for the BHSc Office, Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all undergraduate BHSc student affairs in the School.

#### Enrolment Limitations

Enrolment limits may be in effect for some courses in the Cumming School of Medicine and the Faculties of Science and Arts.

#### Immunization Requirements

All BHSc students are required to meet an immunization standard as outlined on the Student Immunization Form checklist. Documented proof of completion must be provided to the Immunization Co-ordinator or delegate prior to commencement of the program.

Throughout the BHSc program, students are required to ensure that immunizations are current and must provide proof of updates to the Cumming School of Medicine Immunization Co-ordinator. Failure to do so will result in students being removed from course-based research environments, or being placed in an alternate environment until such time as adequate proof has been provided. In the event of extenuating medical circumstances impacting immunization status, students may be accommodated in non-Alberta Health Services-affiliated environments. Please note that requirements may change during the program as determined by Alberta Health Services guidelines.

**Complete ALL of the following Requirement Sets:**

- Bachelor of Health Sciences - Degree Requirements
- Bachelor of Health Sciences - Course Selection and Registration
- Bachelor of Health Sciences - Assessment
- Bachelor of Health Sciences - Student Standing

For other regulations related to the Bachelor of Health Sciences Honours, see: [4. Bachelor of Health Sciences Honours](#).

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Health and Society Major Required Courses**

Upon completion of Year 1, Health and Society students are required to declare an "Area of Concentration". This must be selected from Anthropology, Community Rehabilitation and Disability Studies, Economics, Psychology, Geography, Sociology, or Political Science. Course selection must correspond to the student's chosen concentration discipline and must be chosen from the "Concentration Courses" listed below.

**Complete ALL of the following Course Sets:**

- Health and Society 201, 301, 311, 401, 403, 591
- Biology 241, 243
- 9 units Major Option: Anthropology 203, Community Rehabilitation 205, 207, Economics 201, 203(1), Geography 254, Psychology 200, 201(2), Sociology 201
- Medical Science 203, 205, 308(3)
- Health and Society 408(4)
- Medical Science 407
- Medical Science 508(5)
- 3 units English: any 200-level English
- 21 units Concentration Courses (see below)
- 3 units Life Sciences Option: any Biology course or Anthropology 201 or Geography 303
- 3 units Humanities Option(6)
- 9 units Health Science Option: any senior-level course offered by the Faculty of Science, the Cumming School of Medicine or courses selected from Anthropology, Archaeology, Economics, Geography, History, International Relations, Linguistics, Indigenous Studies, Political Science, Psychology, Sociology, Urban Studies
- 6 units Senior Option
- 9 units Open Option

(1)Students considering concentrating in economics should take Economics 201 and 203. It is strongly recommended that these two courses are completed during the first year of study to facilitate enrolment in senior-level Economics course come the student's second year.

(2)Students considering concentrating in psychology should take Psychology 200 and 201. It is strongly recommended that this course is completed during the first year of study to facilitate enrolment in senior-level Psychology course come the student's second year.

(3)Medical Science 203, 205, 308 are to be taken in sequence through years one to two.

(4)Health and Society 408 to be taken in year three.

(5)Medical Science 508 to be taken in the final year.

(6)Acceptable courses from the Faculty of Arts to satisfy the Humanities Option may be selected from the following departments: Classics and Religion; English; Philosophy; School of Languages, Linguistics, Literatures and Cultures; Medical Science 309.

21 units Concentration Courses

**Complete at least 1 of the following requirement sets:**

- ANTHROPOLOGY CONCENTRATION
- COMMUNITY REHABILITATION AND DISABILITY STUDIES CONCENTRATION
- ECONOMICS CONCENTRATION
- GEOGRAPHY CONCENTRATION
- POLITICAL SCIENCES CONCENTRATION
- PSYCHOLOGY CONCENTRATION
- SOCIOLOGY CONCENTRATION

*\*The above concentration courses are subject to the changes and restrictions of the department offering the course.*

**Additional Comments:**

#### Degree Options

##### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Embedded Certificates
- Minor Programs

**Additional Comments:**

## Biological Sciences; Department of Department

The Department of Biological Sciences is part of the Faculty of Science.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Science](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Biological Sciences](#).

## Programs

### Overview

General Program Information

Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

#### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on

dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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#### Admission to the Department of Biological Sciences

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

Directly from High School (see Section [3.2 Admission](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.

Subject to the Honours qualifications set out in Subsection [3.2 Admission - Honours Program](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.

From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

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#### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

BSc Honours in Biochemistry degree program is accredited by the Canadian Society for Chemistry (CSC) for Canadian Chemistry programs. The CSC manages the accreditation of undergraduate chemistry programs nationally and abroad. This program maintains national standards of education and promotes the portability of the qualifications of graduates from such programs.

#### Department Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in these courses.

#### Courses Constituting the Field of Biochemistry

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Biochemistry while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Biochemistry

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Required Courses - Major Program

**Earn at least 78 credits from the following:**

- 15 units - Biology 241, 243, 311, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275 and one of Mathematics 211 or 213 or 267 or 277
- 6 units - Physics 211 or 221; and 223
- 3 units - Biochemistry 393
- 12 units - Chemistry 311, 315, 351, 353
- 12 units - Biochemistry 411, 413, 431, 471
- 18 units - Chosen from Biochemistry 443, 541, 543, 547, 551, 553, 555, 561, 575, 577 or Cellular, Molecular and Microbial Biology 411 or 523

Breadth Requirement

**Earn at least 42 credits from the following:**

- 12 units - Options selected from courses offered by the Faculty of Science
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 6 units - Non-Major Requirement: Options outside the Field of Biochemistry
- 6 units - Options

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

**Additional Comments:**

### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts linked below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

### Recommended Program Sequence for the BSc in Biochemistry

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement.

All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

Additional Comments:

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see **3.2 Admission**.

## Admission to the Department of Biological Sciences

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

Directly from High School (see Section [3.2](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.

Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.

From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

## Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

## Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

BSc Honours in Biochemistry degree program is accredited by the Canadian Society for Chemistry (CSC) for Canadian Chemistry programs. The CSC manages the accreditation of undergraduate chemistry programs nationally and abroad. This program maintains national standards of education and promotes the portability of the qualifications of graduates from such programs.

### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

### Courses Constituting the Field of Biochemistry

#### Type

Completion Requirement

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Biochemistry while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Biochemistry

## Additional Comments:

### Program Requirements

#### Type

Completion Requirement

Required Courses - Honours Program

#### Earn at least 84 credits from the following:

- 15 units - Biology 241, 243, 311, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213

- 6 units - One of Mathematics 249 or 265 or 275 and one of Mathematics 211 or 213 or 267 or 277
- 6 units - Physics 211 or 221; and 223
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Chemistry 353 or 355
- 6 units - Chemistry 311 and 315
- 15 units - Biochemistry 411, 413, 431, 471, and Cellular, Molecular and Microbial Biology 411
- 15 units - Chosen from Biochemistry 443, 541, 543, 547, 551, 553, 555, 561, 575, 577 or Cellular, Molecular and Microbial Biology 523
- 6 units - Biochemistry 530

#### Required Options - Honours Program

##### Earn at least 36 credits from the following:

- 12 units - Options selected from courses offered by the Faculty of Science
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 6 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts linked below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc Honours in Biochemistry

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Arts and Science Honours Academy
- Embedded Certificates

Additional Comments:

## Overview

General Program Information

Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](https://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

Simple Requisites

Faculty of Science Minor Program Regulations

Type

Completion Requirement

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

**Additional Comments:**

## Courses Constituting the Field of Biological Sciences

**Type**

Completion Requirement

Courses Constituting the Field of Biological Sciences

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Biological Sciences

**Additional Comments:**

## Required Courses - Minor Program

**Type**

Completion Requirement

Required Courses - Minor Program

**Earn at least 6 credits from the following:**

- 6 units - Biology 241 and 243

Required Options - Minor Program

- 24 units - Courses Constituting the Field of Biological Sciences at the 300 level or higher but must include at least one of Biology 311, 313, 331, 371

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Biological Sciences

A maximum of 3 units from the Field of Biological Sciences offered by departments other than the Department of Biological Sciences can be counted towards the Minor Field.

No more than 3 units approved Medical Sciences courses can be counted towards the Minor Field.

**Additional Comments:**

**Notes:**

This Minor is available only to students who are not majoring in the Department of Biological Sciences or are not Environmental Science or Natural Sciences concentrators in Biological Sciences or BHSc majors in Biomedical Sciences or Bioinformatics or majors in the Neuroscience program. This is the single minor program offered by the Department and none of the other programs exist as Minors. Students must be aware that preference in enrolment in many courses offered by the Department of Biological Sciences is given to Majors or Environmental Science or Natural Sciences Concentrators within the Department.

## Overview

General Program Information

Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

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### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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### Admission to the Department of Biological Sciences

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see Section [3.2 Admission](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 Admission – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet

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the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing, B. Performance Review, Probationary Status and Dismissal](#).

### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca](http://acat.alberta.ca).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

#### Courses Constituting the Field of Biological Sciences

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Biological Sciences while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Biological Sciences

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

Required Courses - Major Program

**Earn at least 36 credits from the following:**

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Chemistry 351

Required Options - Major Program

**Earn at least 84 credits from the following:**

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 27 units - From the Field of Biological Sciences
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 15 units - Non-Major Field Requirement
- 18 units - Options

**Additional Comments:**

## Concentrations

**Type**

Completion Requirement

Concentrations

Students may focus their program on one of three areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

Concentration in Biodiversity and Conservation

**Earn at least 27 credits from the following:**

- 9 units - Biology 315, 401 and 451
- 6 units - From Biology 435, 453; Cellular, Molecular and Microbial Biology 343; Plant Biology 327; Zoology 401, 403, 435
- 6 units - From Ecology 417, 419, 425, 429, 439
- 6 units - From Biology 507, 509, 520, 528, 591; Biochemistry 507, 528; Cellular, Molecular and Microbial Biology 507, 528, 543, 563; Ecology 413, 501, 507, 527, 528, 529; Marine Science 500, 501, 502, 507, 511, 513, 515,

525, 537, 540, 572, 574; Plant Biology 507, 528, 541; Zoology 507, 528, 567, 571, 576, 577

#### Concentration in Biotechnology

Earn at least 27 credits from the following:

- 3 units - Cellular, Molecular and Microbial Biology 343
- 3 units - Entrepreneurship and Innovation 201
- 3 units - From Biology 315 or Medical Science 301
- 3 units - Biochemistry 561
- 9 units - From Biochemistry 431, 443, 541, 543; Biology 501, 503, 505; Cellular, Molecular and Microbial Biology 411, 421, 443, 461, 523; Plant Biology 401, 421
- 6 units - From Biology 507, 528; Biochemistry 507, 528, 547; Cellular, Molecular and Microbial Biology 507, 528, 543, 545, 563; or Chemical Engineering 535

#### Concentration in Genetics and Evolution

Earn at least 27 credits from the following:

- 6 units - Biology 315 and 401
- 3 units - Cellular, Molecular and Microbial Biology 411
- 6 units - From Cellular, Molecular and Microbial Biology 343, 421; Plant Biology 327; Zoology 401, 403, 435
- 6 units - From Cellular, Molecular and Microbial Biology 403, 413, 461; Plant Biology 543; Ecology 529
- 6 units - From Biology 505, 507, 528, 591; Biochemistry 507, 528; Cellular, Molecular and Microbial Biology 505, 507, 519, 528, 549, 563; Ecology 507, 528; Plant Biology 507, 528, 541; Zoology 507, 528, 571, 567, 576, 595

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

#### Additional Comments:

##### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts linked below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc in Biological Sciences

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

Faculty of Science Degree Options

To complete an **optional** enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

**Department Information**

**Student enquiries:** 403.220.8600

**Department Office:** Biological Sciences 186

**Website:** [science.ucalgary.ca/biological-sciences](https://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

**Program Admissions Information**

For Faculty of Science admission information see [3.2 Admission](#).

### Admission to the Department of Biological Sciences

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see Section [3.2 Admission](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

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- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection **3.2 – Honours Programs**, and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

### Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See **A.5.3.1** for GPA computation guidelines.

### Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections **3.2** and **3.4C**.
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of **3.7 Student Standing**, B. Performance Review, Probationary Status and Dismissal.

### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: **3. Faculty of Science Regulations**.

### Additional Comments:

## Department Regulations

### Type

Completion Requirement

### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in these courses.

## Courses Constituting the Field of Biological Sciences

### Type

Completion Requirement

Students must successfully complete a minimum of 60 units, to a maximum of 78 units, in Courses Constituting the Field of Biological Sciences while fulfilling the Program Requirements.

#### Earn at least 60 credits from the following:

- Courses Constituting the Field of Biological Sciences

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

#### Earn at least 42 credits from the following:

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 6 units - Biology 530

#### Required Options - Honours Program

#### Earn at least 78 credits from the following:

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 27 units - Three sets of 9 units from three divisions of Biological Science, with at least 18 units at the 400 level or higher

- 6 units - From the Field of Biological Sciences
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 3 units - Non-Major Field Requirement: Options that are not in the Field of Biological Sciences
- 18 units - Options

**Additional Comments:**

## Concentrations

### Type

Completion Requirement

#### Concentrations

Students may focus their program on one of three areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

#### Concentration in Biodiversity and Conservation

Earn at least 27 credits from the following:

- 9 units - Biology 315, 401 and 451
- 6 units - From Biology 435, 453; Cellular, Molecular and Microbial Biology 343; Plant Biology 327; Zoology 401, 403, 435
- 6 units - From Ecology 417, 419, 425, 429, 439
- 6 units - From Biology 505, 507, 528, 591; Biochemistry 507, 528; Cellular, Molecular and Microbial Biology 505, 507, 519, 528, 549, 563; Ecology 507, 528; Plant Biology 507, 528, 541; Zoology 507, 528, 571, 567, 576, 595

#### Concentration in Biotechnology

Earn at least 27 credits from the following:

- 3 units - Cellular, Molecular and Microbial Biology 343
- 3 units - Entrepreneurship and Innovation 201
- 3 units - From Biology 315 or Medical Science 301
- 3 units - Biochemistry 561
- 9 units - From Biochemistry 431, 443, 541, 543; Biology 501, 503, 505; Cellular, Molecular and Microbial Biology 411, 421, 443, 461, 523; Plant Biology 401, 421
- 6 units - From Biology 507, 528; Biochemistry 507, 528, 547; Cellular, Molecular and Microbial Biology 507, 528, 543, 545, 563; or Chemical Engineering 535

#### Concentration in Genetics and Evolution

Earn at least 27 credits from the following:

- 6 units - Biology 315 and 401
- 3 units - Cellular, Molecular and Microbial Biology 411
- 6 units - From Cellular, Molecular and Microbial Biology 343, 421; Plant Biology 327; Zoology 401, 403, 435
- 6 units - From Cellular, Molecular and Microbial Biology 403, 413, 461; Plant Biology 543; Ecology 529
- 6 units - From Biology 505, 507, 528, 591; Biochemistry 507, 528; Cellular, Molecular and Microbial Biology 505, 507, 519, 528, 549, 563; Ecology 507, 528; Plant Biology 507, 528, 541; Zoology 507, 528, 571, 567, 576, 595

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

#### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts linked below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc Honours in Biological Sciences

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Arts and Science Honours Academy
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

#### Specializations:

- Biochemistry
- Biophysical Chemistry
- Cell Biology
- Developmental Biology

## UCalgary

- Ecology
- Environmental Microbiology
- Evolutionary Biology
- Molecular Microbiology
- Physiology
- Structural Biology
- Host-Pathogen Interactions
- Energy&Env

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/biological-sciences/future-students/graduate/programs>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/biological-sciences-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies admission requirements and the Faculty of Science requirements, the Department requires:

- A minimum grade point average of 3.20 on a four-point scale during the last two full years or equivalent.
- For students required to provide proof of proficiency in English: a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; a CAEL score of 70 (with a minimum of 70 in each component); a Duolingo score of 145 (with no subscore below 125); or a Cambridge Proficiency score of 105. This requirement can also be met by completing the Academic Communication Certificate (<https://ucalgary.ca/esl/acc>) with a minimum grade of "A-" in each course.
- A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- Three academic reference letters and the required reference form.

Exceptional students may apply to a PhD program without an MSc recognized by the Faculty of Graduate Studies. In such cases, requirements in addition to those outlined above include: a four-year BSc or equivalent degree from a recognized institution with a minimum GPA of 3.60 (four-point scale) during the last two full years; and a full-year research project with a minimum grade of 3.70.

Transfer from a MSc to a PhD program is allowed for students who have successfully completed all courses required for the MSc degree, and who have demonstrated outstanding research ability and potential to their Supervisory Committee. Normally, evidence of this ability will include, but not be limited to, a grade point average of 3.60 for the courses completed during the MSc program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies requirements and the Faculty of Science requirements, the Department requires:

- Completion of a minimum of 6 units for both the Master of Science and doctoral programs. Students transferring from the MSc program to the PhD program will be required to take a minimum of 3 units in addition to work already completed.

Please note that graduate courses must be chosen in consultation with the supervisor and approved by the Graduate Program Director. Course requirements may include courses offered by other Departments.

b) Completion of the appropriate number of **Biology 601** Research Seminar courses in addition to (a) above.

c) Presentation of a Departmental Pre-Defence seminar on the results of the thesis research.

#### **Transfer from the Master of Science to the doctoral program**

A request to transfer from the Master of Science program to the doctoral program may be made no later than twenty-four months after initial registration. Students who transfer will be required to take one additional 3-unit course, regardless of course work completed before the transfer, and are expected to meet the 36-month deadline for completion of candidacy requirements.

#### **Additional Comments:**

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Flexible Grade Option (CG Grade)**

Students admitted to the Department of Biological Sciences will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### **Credit for Undergraduate Courses**

At least one-half of a graduate student's coursework must be at the 600 level or higher.

Only when appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses. Courses below the 500 level will not be accepted for graduate credit.

#### **Time Limit**

Expected completion time is two years for the Master of Science degree. Maximum completion time is four years.

#### **Supervisory Assignments, Research Proposal and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

Applicants must contact faculty members directly regarding supervision of their graduate program, prior to submitting an application. The Department does not accept students unless at least one faculty member has indicated a willingness to act as supervisor. For the MSc program, the supervisor, in consultation with the student, selects a Supervisory Committee consisting of the supervisor and at least two other faculty members whose research experience will be beneficial to the student's graduate program.

#### **Research Proposal**

Master of Science students must present a written research proposal to their supervisory committee no later than six months after initial registration in program.

## Thesis Examinations

Final Thesis Examinations are required at both the Master of Science and doctoral level. In addition to the Faculty of Graduate Studies [regulations](#), the Department has the following requirements:

A public "Exit" Seminar preceding the examination is required.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for the Open Scholarship Competition must submit their scholarship applications to the Department of Biological Sciences by the appropriate deadline. Please contact <mailto:sci.grad@ucalgary.ca> for further information.

## Overview

### General Program Information

#### Specializations:

- Biochemistry
- Biophysical Chemistry
- Cell Biology
- Developmental Biology
- Ecology
- Environmental Microbiology
- Evolutionary Biology
- Molecular Microbiology
- Physiology
- Structural Biology
- Host-Pathogen Interactions
- [Energy&Env](#)

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/biological-sciences/future-students/graduate/programs>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/biological-sciences-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies' **admission** requirements and Faculty of Science requirements, the Department requires:

- a) A minimum grade point average of 3.20 on a four-point scale during the last two full years or equivalent.
- b) For students required to provide proof of proficiency in English: a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; a CAEL score of 70 (with a minimum of 70 in each component); a Duolingo score of 145 (with no subscore below 125); or a Cambridge Proficiency score of 105. This requirement can also be met by completing the Academic Communication Certificate (<https://ucalgary.ca/esl/acc>) with a minimum grade of "A-" in each course.
- c) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- d) Three academic reference letters and the required reference form.

Exceptional students may apply to a PhD program without an MSc recognized by the Faculty of Graduate Studies. In such cases, requirements in addition to those outlined above include: a four-year BSc or equivalent degree from a recognized institution with a minimum GPA of 3.60 (four-point scale) during the last two full years; and a full-year research project with a minimum grade of 3.70.

Transfer from a MSc to a PhD program is allowed for students who have successfully completed all courses required for the MSc degree, and who have demonstrated outstanding research ability and potential to their Supervisory Committee. Normally, evidence of this ability will include, but not be limited to, a grade point average of 3.60 for the courses completed during the MSc program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements** and Faculty of Science requirements, the Department requires:

- a) Completion of a minimum of 6 units for both the Master of Science and doctoral programs. Students transferring from the MSc program to the PhD program will be required to take a minimum of 3 units in addition to work already completed. Please note that graduate courses must be chosen in consultation with the supervisor and approved by the Graduate Program Director. Course requirements may include courses offered by other Departments.
- b) Completion of the appropriate number of Biology 601 Research Seminar courses in addition to (a) above.
- c) Presentation of a Departmental Pre-Defence seminar on the results of the thesis research.

Transfer from the Master of Science to the doctoral program

A request to transfer from the Master of Science program to the doctoral program may be made no later than twenty-four months after initial registration. Students who transfer will be required to take one additional 3-unit course, regardless of course work completed before the transfer, and are expected to meet the 36-month deadline for completion of candidacy requirements.

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Flexible Grade Option (CG Grade)

Students admitted to the Department of Biological Sciences will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At least one-half of a graduate student's coursework must be at the 600 level or higher.

Only when appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses. Courses below the 500 level will not be accepted for graduate credit.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Applicants must contact faculty members directly regarding supervision of their graduate program, prior to submitting an application. The Department does not accept students unless at least one faculty member has indicated a willingness to act as supervisor. For the PhD program, the supervisor, in consultation with the student, selects a Supervisory Committee consisting of the supervisor and at least two other faculty members whose research experience will be beneficial to the student's graduate program.

## Research Proposal

Doctoral students must complete a written thesis proposal no later than twelve months after initial registration in the program. The proposal will be evaluated in a supervisory committee meeting. See [handbook](#) for further information about the proposal requirements and evaluation process.

## Required Examinations

### Candidacy

Doctoral students must pass oral and written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see [handbook](#).

### Thesis Examinations

Final Thesis Examinations are required at both the Master of Science and doctoral level. In addition to the Faculty of Graduate Studies [regulations](#), the Department has the following requirements:

A public "Exit" Seminar preceding the examination is required.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for the Open Scholarship Competition must submit their scholarship applications to the Department of Biological Sciences by the appropriate deadline. Please contact <mailto:sci.grad@ucalgary.ca> for further information.

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

Directly from High School (see Section [3.2](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.

Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.

From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

## Admission to Concentrations:

Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

## Notes:

Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

## Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca](http://acat.alberta.ca).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree , refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

**Additional Comments:**

**Department vs. Faculty Regulations**

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [3. Faculty of Science Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

**Enrolment Limitations in Courses**

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

**Courses Constituting the Field of Cellular, Molecular and Microbial Biology**

**Type**

Completion Requirement

Courses Constituting the Field of Cellular, Molecular and Microbial Biology

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Cellular, Molecular and Microbial Biology while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Cellular, Molecular and Microbial Biology

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Required Courses - Major Program

**Earn at least 48 credits from the following:**

- 15 units - Biology 241, 243, 311, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Cellular, Molecular and Microbial Biology 343
- 6 units - Chemistry 351 and 353
- 3 units - Biochemistry 431 or 443
- 6 units - Cellular, Molecular and Microbial Biology 411, 527

Required Options - Major Program

**Earn at least 72 credits from the following:**

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 12 units - Cell Biology Emphasis or Microbiology Emphasis
- 6 units - Options from the Field of Cellular, Molecular and Microbial Biology
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted

among the courses from other faculties.

- 12 units - Non-Major Field Requirement: Options that are not in the Field of Cellular, Molecular and Microbial Biology
- 18 units - Options

**Additional Comments:**

#### Program Sequence

**Type**

Completion Requirement

**Additional Comments:**

#### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc in Cellular, Molecular and Microbial Biology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

**Type**

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

Department Information

**Student enquiries:** 403.220.8600

**Department Office:** Biological Sciences 186

**Website:** [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

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## Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

Directly from High School (see Section [3.2 Admission](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.

Subject to the Honours qualifications set out in Subsection [3.2– Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.

From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

#### Admission to Concentrations:

Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

#### Notes:

Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the

Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca](http://acat.alberta.ca).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree , refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is **essential** for students to be familiar with **both** sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

#### Courses Constituting the Field of Cellular, Molecular and Microbial Biology

## Type

Completion Requirement

Courses Constituting the Field of Cellular, Molecular and Microbial Biology

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Cellular, Molecular and Microbial Biology while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Cellular, Molecular and Microbial Biology

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Required Courses - Honours Program

**Earn at least 57 credits from the following:**

- 15 units - Biology 241, 243, 311, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Cellular, Molecular and Microbial Biology 343
- 6 units - Chemistry 351 and 353
- 3 units - Biochemistry 431 or 443
- 6 units - Cellular, Molecular and Microbial Biology 411, 527
- 3 units - Cellular, Molecular and Microbial Biology 451
- 6 units - Cellular, Molecular and Microbial Biology 530

Required Options - Honours Program

**Earn at least 63 credits from the following:**

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 12 units - Cell Biology Emphasis or Microbiology Emphasis
- 3 units - Options from the Field of Cellular, Molecular and Microbial Biology at the 500 level
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 24 units - Options

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

**Additional Comments:**

**First and Second Year Course Selection Submit**

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of

program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units, Students may begin planning their coursework for their specialized program from first year.

### Recommended Program Sequence for the BSc Honours in Cellular, Molecular and Microbial Biology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Faculty of Science - Second Degree Programs
- Double Major in the Department of Biological Sciences
- Arts and Science Honours Academy
- Embedded Certificates

#### Additional Comments:

## Overview

### General Program Information

Office: Science B 149

Telephone: 403.220.8600

Website: [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

Email: [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty of Science Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

#### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with Biological Sciences Concentration

##### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with Biological Sciences Concentration

Students must successfully complete a minimum of 51 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences while fulfilling the Program Requirements.

**Earn at least 51 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences

#### Additional Comments:

## Program Requirements

### Type

Completion Requirement

Required Courses - Major with a Concentration in Biological Sciences

Earn at least 84 credits from the following:

- 21 units - Biology 241, 243, 311, 313, 315, 331, 371
- 3 units - Biochemistry 393
- 3 units - Ecology 417 or 419
- 3 units - Ecology 425
- 6 units - Chemistry 201 or 211; and 203 or 213
- 15 units - Chemistry 311, 315, 351, 353 and one of 321 or 515
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 6 units - Physics 211 or 221 and 223; or Earth 210 and one of Earth 310, 320, 330, 340, 350, or 360
- 3 units - Geography 308
- 3 units - Geography 408
- 15 units - Environmental Science 401, 501, 502, 503

Required Options - Major with a Concentration in Biological Sciences

Earn at least 36 credits from the following:

- 6 units - Options from the Field of Biological Sciences
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 15 units - Options

Additional Comments:

## Program Sequence

### Type

Completion Requirement

Additional Comments:

**Recommended Program Sequence for the Biological Sciences Concentration**

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Biological Sciences Concentration.

## Degree Options

### Type

Completion Requirement

Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties

- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree). The double major combination BSc Environmental Science specialization in Biological Sciences/BSc Ecology and BSc Environmental Science specialization in Biological Sciences/BSc Biological Sciences will not be allowed, however all other combinations of Major programs in Biological Sciences and BSc Environmental Science specialization in Biological Sciences will be allowed.

**Additional Comments:**

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty of Science Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: **3. Faculty of Science Regulations.**

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read **Faculty Regulations** first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences

##### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Required Courses - Honours Degree with a Concentration in Biological Sciences

**Earn at least 84 credits from the following:**

- 21 units - Biology 241, 243, 311, 313, 315, 331, 371
- 3 units - Biochemistry 393
- 3 units - Ecology 417 or 419
- 3 units - Ecology 425
- 6 units - Chemistry 201 or 211; and 203 or 213
- 15 units - Chemistry 311, 315, 351, 353 and one of 321 or 515
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 6 units - Physics 211 or 221 and 223; or Earth 210 and one of Earth 310, 320, 330, 340, 350, or 360
- 3 units - Geography 308
- 3 units - Geography 408

- 15 units - Environmental Science 401, 501, 502, 503

Required Options - Honours Degree with a Concentration in Biological Sciences

Earn at least 36 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Biological Sciences
- 6 units - Options from the Field of Biological Sciences
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 9 units - Options

**Additional Comments:**

#### Program Sequence

Type

Completion Requirement

**Additional Comments:**

#### Recommended Program Sequence for the Biological Sciences Concentration

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Biological Sciences Concentration.

#### Degree Options

Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree). The double major combination BSc Environmental Science specialization in Biological Sciences/BSc Ecology and BSc Environmental Science specialization in Biological Sciences/BSc Biological Sciences will not be allowed, however all other combinations of Major programs in Biological Sciences and BSc Environmental Science specialization in Biological Sciences will be allowed.

**Additional Comments:**

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

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### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see [Section 3.2](#) Admissions) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

### Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

### Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

#### Courses Constituting the Field of Plant Biology

##### Type

## Completion Requirement

### Courses Constituting the Field of Plant Biology

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Plant Biology while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Plant Biology

## Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

### Required Courses - Major Program

#### Earn at least 60 credits from the following:

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Chemistry 353 or option
- 15 units - From Biology 435, 453, Plant Biology 327, 401, 403, 421, 543
- 6 units - From Biochemistry 561, Biology 451, 505, Plant Biology 541

### Required Options - Major Program

#### Earn at least 60 credits from the following:

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 6 units - From the Field of Plant Biology
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 15 units - Non-Major Field Requirement: Options that are not in the Field of Plant Biology
- 15 units - Options

## Additional Comments:

## Program Sequence

### Type

#### Completion Requirement

## Additional Comments:

### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

## Recommended Program Sequence for the BSc in Plant Biology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

### Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see [Section 3.2](#) Admissions) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
  - Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
  - Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.
- 

### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

#### Courses Constituting the Field of Plant Biology

##### Type

Completion Requirement

#### Courses Constituting the Field of Plant Biology

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Plant Biology while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Plant Biology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Required Courses - Honours Program

**Earn at least 66 credits from the following:**

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Chemistry 353 or option
- 15 units - From Biology 435, 453, Plant Biology 327, 401, 403, 421, 543
- 6 units - From Biochemistry 561; Biology 451, 505; Plant Biology 541
- 6 units - Plant Biology 530

#### Required Options - Honours Program

##### Earn at least 54 credits from the following:

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 6 units - From the Field of Plant Biology
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 3 units - Non-Major Field Requirement: Options that are not in the Field of Plant Biology
- 21 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc Honours in Plant Biology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

### General Program Information

#### Department Information

**Student enquiries:** 403.220.8600

**Department Office:** Biological Sciences 186

**Website:** [science.ucalgary.ca/biological-sciences](https://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see [Section 3.2](#) Admissions) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

## UCalgary

- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection **3.2 – Honours Programs**, and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

### Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See **A.5.3.1** for GPA computation guidelines.

### Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections **3.2** and **3.4C**.
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of **3.7 Student Standing**, B. Performance Review, Probationary Status and Dismissal.

### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: **3. Faculty of Science Regulations**.

### Additional Comments:

## Department Regulations

### Type

Completion Requirement

### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is **essential** for students to be familiar with **both** sets of regulations. It is helpful to read the **Faculty Regulations** first.

Students should consult Academic Requirements in their **Student Centre** periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the **Undergraduate Science Centre (USC)** at all stages of their program.

## Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

## Courses Constituting the Field of Zoology

### Type

Completion Requirement

#### Courses Constituting the Field of Zoology

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Zoology while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Zoology

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Program

#### Earn at least 63 credits from the following:

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 6 units - Physics 211 or 221 and 223; or Earth 210 and one of Earth 310, 320, 330, 340, 350, or 360
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Biology 315
- 6 units - Chosen from Zoology 401, 403, 461, 463 or Cellular, Molecular and Microbial Biology 403
- 12 units - Chosen from Biology 401, Cellular, Molecular and Microbial Biology 403 or any courses labelled Zoology (ZOOL) at the 400 level or above

#### Required Options - Major Program

Earn at least 57 credits from the following:

- 6 units - From the Field of Zoology at the 400 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 15 units - Non-Major Field Requirement: Options that are not in the Field of Zoology
- 18 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

#### Additional Comments:

##### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc in Zoology

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

#### Additional Comments:

## Overview

General Program Information

Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](https://science.ucalgary.ca/biological-sciences)

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### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see [Section 3.2](#) Admissions) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 - Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

##### Completion Requirement

#### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is **essential** for students to be familiar with **both** sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

#### Courses Constituting the Field of Zoology

##### Type

## Completion Requirement

### Courses Constituting the Field of Zoology

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Zoology while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Zoology

## Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

### Required Courses - Honours Program

#### Earn at least 69 credits from the following:

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 6 units - Physics 211 or 221 and 223; or Earth 210 and one of Earth 310, 320, 330, 340, 350, or 360
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Biology 315
- 6 units - Chosen from Zoology 401, 403, 461, 463 or Cellular, Molecular and Microbial Biology 403
- 12 units - Chosen from Biology 401, Cellular, Molecular and Microbial Biology 403 or any courses labelled Zoology (ZOOL) at the 400 level or above
- 6 units - Zoology 530

### Required Options - Honours Program

#### Earn at least 51 credits from the following:

- 6 units - From the Field of Zoology at the 400 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 3 units - Non-Major Field Requirement: Options that are not in the Field of Zoology
- 24 units - Options

## Additional Comments:

## Program Sequence

### Type

#### Completion Requirement

## Additional Comments:

### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of

program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units, Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc Honours in Zoology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates
- Arts and Science Honours Academy

##### Additional Comments:

## Biomedical Engineering; Department of Department

The Department of Biomedical Engineering is part of the Schulich School of Engineering.

For more information concerning program regulations and requirements, refer to the **Schulich School of Engineering**. For contact information or current events, refer to the **Department of Biomedical Engineering**.

## Programs

### Overview

#### General Program Information

The curriculum is designed for students with degrees in Engineering, Medicine, Physical Sciences, Kinesiology, Health or Life Sciences. Background experience and qualifications, as well as areas of interest of the applicants will be taken into account at the time of admission.

A Master of Engineering in Biomedical Engineering does not entitle graduates to a designation of Professional Engineer. The title of Engineer, or Professional Engineer, is restricted to those who are members of a Provincial engineering association.

Please see the Biomedical Engineering Graduate Program website for the latest version of the Handbook of Policies and Procedures at <https://research.ucalgary.ca/bme/graduate>.

The Schulich School of Engineering also offers a **Master of Engineering (MEng), course-based with Internship** in the Biomedical Engineering program.

Location: ENB202

Program number: 403.220.3835

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/biomedical>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: **Biomedical Engineering - MEng - Course-Based | Faculty of Graduate Studies | University of Calgary (ucalgary.ca)**.

In addition to Faculty of Graduate Studies requirements for **admission**, the program requires:

- minimum GPA requirements are 3.00 on a four-point scale.
- students must have an approved four-year undergraduate degree in engineering, science, kinesiology or equivalent.

International students are required to demonstrate proficiency in the English language, in accordance with the admission requirements of the Faculty of Graduate Studies. All students must meet the **admission requirements** of both the Faculty of Graduate Studies and the Biomedical Engineering Graduate Program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

30 units are required, which include:

##### Enroll in the following Requirement Sets:

- MEng, Course-based, Biomedical Engineering

For students completing the **Master of Engineering (MEng), course-based with Internship**:

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Additional Comments:

### Additional Courses

Courses are listed by theme, but students are not restricted to taking courses from within a theme. The supervisor and supervisory committee should be consulted for course selection. Courses not listed under Additional Courses or on the list at **<https://schulich.ucalgary.ca/biomedical/programs/graduate/program-resources/courses>** require the approval of the Biomedical Engineering Graduate Program. Directed studies courses require approval of the Biomedical Engineering Graduate Program. Not all courses may be offered every year.

- **BMEN609 Anatomy & Phys for BMEN**
- **BMEN619 Advanced Topics in BMEN** (BMEN619.39)

## Additional Courses in Theme 1: Human Mobility

- [BMEN619 Advanced Topics in BMEN](#)
- [ENCI653 Theory&ApplOfFiniteElemMeth](#)
- [ENME653 Advanced Continuum Mechanics](#)
- [ENME663 \(Knes/Mdsc 663\)Adv Mech & Phys](#)

## Additional Courses in Theme 2: Advanced Biomedical Imaging

- [ENEL697 Digital Image Processing](#)
- [MDSC689.01 Medical Imaging Techniques](#)
- [MDSC689.02 Adv Magnetic Resonance Imaging](#)
- [MDSC689.03 Adv Medical Image Processing](#)

## Additional Courses in Theme 3: Regenerative Medicine

- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.33)
- [ENCH659 Advanced Cell & Tissue Engg](#)
- [MDSC710 Business & Careers Biotech](#)
- [VETM702 Adv Topics Stem Cell Biol](#)

## Additional Course in Theme 4: Health Monitoring and Management

- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.37)

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

**Advanced Credit** may be granted with approval of the Biomedical Engineering Graduate Program. Advanced credit will not be granted for Biomedical Engineering 600, 602 or 604.

## Time Limit

In accordance with the Faculty of Graduate Studies regulations, the expected completion time for the MEng (course-based) degree is one to two years. Maximum completion time is six years.

The Master of Engineering, course-based with Internship is normally a three-year program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in the MEng (course-based) program do not receive funding, but may be eligible for awards or financial assistance. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

### Specializations:

- [Medical Im](#)

## UCalgary

- [Stem Cell&](#)
- [Wearable T](#)
- [Comp Neuro](#)

The curriculum is designed for students with degrees in Engineering, Medicine, Physical Sciences, Kinesiology, Health or Life Sciences. Background experience and qualifications, as well as areas of interest of the applicants will be taken into account at the time of admission. The appropriateness of the undergraduate preparation of the applicant must be supported by the proposed supervisor(s) for MSc and PhD students. Students in the MSc degree program are normally considered full-time.

A Master of Science in Biomedical Engineering does not entitle graduates to a designation of Professional Engineer. The title of Engineer, or Professional Engineer, is restricted to those who are members of a Provincial engineering association.

Please see the Biomedical Engineering Graduate Program website for the latest version of the Handbook of Policies and Procedures at <https://schulich.ucalgary.ca/biomedical/programs/graduate>.

Location: ENB202

Program number: 403.220.3835

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/biomedical>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/biomedical-engineering-master-science-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the program requires:

- minimum GPA requirements are 3.20 on a four-point scale.
- two reference letters with their application package.
- MSc students can only be accepted upon identification of one or more approved Biomedical Graduate Engineering Program supervisors who are willing to supervise and fund the applicant.
- International students are required to demonstrate proficiency in the English language, in accordance with the admission requirements of the Faculty of Graduate Studies. All students must meet the admission requirements of both the Faculty of Graduate Studies and the Biomedical Engineering Graduate Program.

Transfer of appropriately qualified MSc students directly into the PhD program is encouraged. Students wishing to transfer must do so between 8 and 16 months of first registration. For transfer, a minimum GPA of 3.50 is required (over a minimum of 9 units), including [BMEN600 Biomedical Engg Foundations](#). In addition, a research proposal, approved by the supervisory committee, must be submitted to the Biomedical Engineering Graduate Program. Applications for transfer must be supported by both the supervisor and the supervisory committee.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies' **requirements** and the Schulich School of Engineering requirements:

All students are required to take a minimum of 12 units as approved by the Biomedical Engineering Graduate Program. This must include **BMEN600 Biomedical Engg Foundations**, **BMEN602 Biomedical Engg Core I** and **BMEN604 Biomedical Engg Core II** and 6 units from technical electives chosen from the list of Additional Courses.

## Medical Imaging Specialization

Students complete a course sequence in Medical Imaging plus additional specialization requirements (see **Medical Im**). MSc students must take a minimum of 6 units (the MEDI core and a MEDI foundational course). These requirements are in addition to the core program requirements of the BME Graduate Program. The required courses are counted towards BME Graduate Program elective courses.

For Interdisciplinary Specializations see:

- **Medical Im**
- **Stem Cell&**
- **Wearable T**
- **Comp Neuro**

## Additional Courses

Courses are listed by theme, but students are not restricted to taking courses from within a theme. The supervisor and supervisory committee should be consulted for course selection. Courses not listed under Additional Courses or on the list at <https://schulich.ualgary.ca/biomedical> require the approval of the Biomedical Engineering Graduate Program. Directed studies courses require approval of the Biomedical Engineering Graduate Program. Not all courses may be offered every year.

- **BMEN609 Anatomy & Phys for BMEN**
- **BMEN619 Advanced Topics in BMEN** (BMEN619.39)

### *Additional Courses in Theme 1: Human Mobility*

- **BMEN619 Advanced Topics in BMEN**
- **ENCI653 Theory&ApplOfFiniteElemMeth**
- **ENME653 Advanced Continuum Mechanics**
- **ENME663 (Knes/Mdsc 663)Adv Mech & Phys**

### *Additional Courses in Theme 2: Advanced Biomedical Imaging*

- **ENEL697 Digital Image Processing**
- **MDSC689.01 Medical Imaging Techniques**
- **MDSC689.02 Adv Magnetic Resonance Imaging**
- **MDSC689.03 Adv Medical Image Processing**

### *Additional Courses in Theme 3: Regenerative Medicine*

- **BMEN619 Advanced Topics in BMEN** (BMEN619.33)
- **ENCH659 Advanced Cell & Tissue Engg**
- **MDSC710 Business & Careers Biotech**
- **VETM702 Adv Topics Stem Cell Biol**

### *Additional Course in Theme 4: Health Monitoring and Management*

- **BMEN619 Advanced Topics in BMEN** (BMEN619.37)

## Additional Program Information

Type

Completion Requirement

Additional Comments:

## Advanced Credit

Credit may be granted with approval of the Biomedical Engineering Graduate Program. Advanced standing will not be granted for **BMEN600 Biomedical Engg Foundations**, **BMEN602 Biomedical Engg Core I** or **BMEN604 Biomedical Engg Core II**.

## Credit for Undergraduate Courses

Graduate credit may be given for 500-level courses. No more than 3 units of credit will be allowed in MSc/PhD program as approved by the supervisory committee, and the Biomedical Engineering Graduate Program.

## Time Limit

In accordance with the Faculty of Graduate Studies regulations, the expected completion time for the MSc is two years. Maximum completion time is four years. Students transferring from the MSc to the PhD program are expected to complete studies within five years. Funding in the MSc and PhD programs may not be available after these expected completion times.

### Supervisory Assignment and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

MSc students need a supervisor for admission to the program. The Supervisory Committee should be selected jointly by the student and supervisor immediately upon entry into the MSc program and approved by the Biomedical Engineering Graduate Program. The Supervisory Committee consists of the supervisor, co-supervisor (if appropriate), and two other members who normally hold academic appointment at the University of Calgary. Appointment of individuals who do not hold academic appointments at the University of Calgary is possible but requires the support of the Biomedical Engineering Graduate Program and the prior approval of the Faculty of Graduate Studies.

The supervisory committee will advise on course selection and research topic for the student. The supervisory committee will usually be cross-disciplinary, as required by the student's research topic and deemed necessary by the supervisor in consultation with the Biomedical Engineering Graduate Program. The supervisory committee will recommend transfer to the PhD program for MSc students. All students will follow the guidelines of the Biomedical Engineering Graduate Program regarding supervision, frequency of committee meetings, course changes, thesis or project proposals, candidacy examinations, etc. as outlined in the Student Handbook. Membership on candidacy and examination committees requires the approval of the Biomedical Engineering Graduate Program.

## Required Examinations

### *Scheduling of the Thesis Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Thesis Examination*

In addition to Faculty of Graduate Studies regulations, the Biomedical Engineering Graduate Program requires the examining committee to consist of a minimum of four voting members: the supervisor (and co-supervisor if appropriate) and Supervisory Committee and one Internal Examiner who may be internal to the student's home program. At least one member of the Supervisory Committee (excluding supervisor and co-supervisor) must be a Biomedical Engineering Graduate Program Approved Supervisor.

The student shall make a public thirty-minute presentation (20 minute presentation plus 10 minutes for questions) of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

### Financial Assistance

## Type

Completion Requirement

## Additional Comments:

Students in the MSc program will not be admitted without funding from an interested supervisor. Please see the Biomedical Engineering Graduate Program handbook for more details.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- [Medical Im](#)
- [Stem Cell&](#)
- [Wearable T](#)
- [Comp Neuro](#)

The curriculum is designed for students with degrees in Engineering, Medicine, Physical Sciences, Kinesiology, Health or Life Sciences. Background experience and qualifications, as well as areas of interest of the applicants will be taken into account at the time of admission. The appropriateness of the undergraduate preparation of the applicant must be supported by the proposed supervisor(s) for MSc and PhD students. Students in the PhD degree program are normally considered full-time.

A Doctor of Philosophy in Biomedical Engineering does not entitle graduates to a designation of Professional Engineer. The title of Engineer, or Professional Engineer, is restricted to those who are members of a Provincial engineering association.

Please see the Biomedical Engineering Graduate Program website for the latest version of the Handbook of Policies and Procedures at <https://schulich.ucalgary.ca/biomedical/programs/graduate>.

Location: ENB202

Program number: 403.220.3835

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/biomedical>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/biomedical-engineering-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the program requires:

- minimum GPA requirement of 3.50 on a four-point scale.
- two reference letters with their application package.
- PhD students can only be accepted upon identification of one or more approved Biomedical Graduate Engineering Program supervisors who are willing to supervise and fund the applicant.
- International students are required to demonstrate proficiency in the English language, in accordance with the admission requirements of the Faculty of Graduate Studies. All students must meet the admission requirements of both the Faculty of Graduate Studies and the Biomedical Engineering Graduate Program.

Transfer of appropriately qualified MSc students directly into the PhD program is encouraged. Students wishing to transfer must

do so between 8 and 16 months of first registration. For transfer, a minimum GPA of 3.50 is required (over a minimum of 9 units), including Biomedical Engineering 600. In addition, a research proposal, approved by the supervisory committee, must be submitted to the Biomedical Engineering Graduate Program. Applications for transfer must be supported by both the supervisor and the supervisory committee.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#):

For a Doctor of Philosophy (PhD) degree, all students are required to take a minimum of 6 units as approved by the Biomedical Engineering Graduate Program.

If the student's completed MSc degree is not in Biomedical Engineering, they must take a further of 12 units, for a total minimum of 18 units.

For students who transfer from an MSc program, minimum of 18 units at the graduate level are required beyond the BSc, or equivalent, degree.

**BMEN600 Biomedical Engg Foundations**, **BMEN602 Biomedical Engg Core I** and **BMEN604 Biomedical Engg Core II** must be included in the course requirements if not taken in the MSc.

All students may choose elective courses from the listing of Additional Courses or approved courses from other departments (see website for most recent information: <https://research.ualgary.ca/bme/graduate>). Other relevant courses, not on the Additional Course list or Program's website, require the approval of the supervisor and the Biomedical Engineering Graduate Program. Students may be required to take senior undergraduate courses as deemed by their Supervisory Committee, but graduate credit will only be granted for senior undergraduate courses as approved by the Biomedical Engineering Graduate Program.

For Interdisciplinary Specializations see:

- [Medical Im](#)
- [Stem Cell&](#)
- [Wearable T](#)
- [Comp Neuro](#)

In addition to the course requirements, all PhD students are required to complete a research project and to submit a written thesis in compliance with the regulations of the Faculty of Graduate Studies.

##### Additional Courses

Courses are listed by theme, but students are not restricted to taking courses from within a theme. The supervisor and supervisory committee should be consulted for course selection. Courses not listed under Additional Courses or on the list at <https://research.ualgary.ca/bme/graduate> require the approval of the Biomedical Engineering Graduate Program. Directed studies courses require approval of the Biomedical Engineering Graduate Program. Not all courses may be offered every year.

- **BMEN609 Anatomy & Phys for BMEN**
- **BMEN619 Advanced Topics in BMEN** (BMEN619.39)

##### *Additional Courses in Theme 1: Human Mobility*

- **BMEN619 Advanced Topics in BMEN**
- **ENCI653 Theory&ApplOfFiniteElemMeth**
- **ENME653 Advanced Continuum Mechanics**
- **ENME663 (Knes/Mdsc 663)Adv Mech & Phys**

## *Additional Courses in Theme 2: Advanced Biomedical Imaging*

- [ENEL697 Digital Image Processing](#)
- [MDSC689.01 Medical Imaging Techniques](#)
- [MDSC689.02 Adv Magnetic Resonance Imaging](#)
- [MDSC689.03 Adv Medical Image Processing](#)

## *Additional Courses in Theme 3: Regenerative Medicine*

- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.33)
- [ENCH659 Advanced Cell & Tissue Engg](#)
- [MDSC710 Business & Careers Biotech](#)
- [VETM702 Adv Topics Stem Cell Biol](#)

## *Additional Course in Theme 4: Health Monitoring and Management*

- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.37)

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Credit may be granted with approval of the Biomedical Engineering Graduate Program. Advanced credit will not be granted for [BMEN600 Biomedical Engg Foundations](#), [BMEN602 Biomedical Engg Core I](#) or [BMEN604 Biomedical Engg Core II](#).

## Credit for Undergraduate Courses

Graduate credit may be given for 500-level courses for MSc/PhD students. No more than 3 units of credit will be allowed as approved by the supervisory committee, and the Biomedical Engineering Graduate Program.

## Time Limit

In accordance with the Faculty of Graduate Studies regulations, the expected completion time for the PhD is four years. The maximum completion time is six years. Students transferring from the MSc to the PhD program are expected to complete studies within five years. Funding in the MSc and PhD programs may not be available after these expected completion times.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

PhD students need a supervisor for admission to the program. The Supervisory Committee should be selected jointly by the student and supervisor immediately upon entry into the PhD program and approved by the Biomedical Engineering Graduate Program. The Supervisory Committee consists of the supervisor, co-supervisor (if appropriate), and two other members who normally hold academic appointment at the University of Calgary. Appointment of individuals who do not hold academic appointments at the University of Calgary is possible but requires the support of the Biomedical Engineering Graduate Program and the prior approval of the Faculty of Graduate Studies.

The supervisory committee will advise on course selection and research topic for the student. The supervisory committee will usually be cross-disciplinary, as required by the student's research topic and deemed necessary by the supervisor in consultation with the Biomedical Engineering Graduate Program. The supervisory committee will recommend transfer to the PhD program for MSc students and certify the background preparation for PhD students prior to scheduling of the candidacy

exam. All students will follow the guidelines of the Biomedical Engineering Graduate Program regarding supervision, frequency of committee meetings, course changes, thesis or project proposals, candidacy examinations, etc. as outlined in the Student Handbook. Membership on candidacy and examination committees requires the approval of the Biomedical Engineering Graduate Program.

## Research Proposal Requirements

Doctoral students must submit a written thesis proposal, which is approved by their Thesis Proposal Evaluation Committee in a Thesis Proposal Evaluation Committee Meeting. See <https://schulich.ucalgary.ca/biomedical/programs/graduate/program-resources/completion-requirements> for further information.

## Doctoral Candidacy Examinations

Doctoral students must pass Thesis Proposal (oral and written) and Field of Study (oral) examinations. For complete details of the examination format and other candidacy requirements, see <https://schulich.ucalgary.ca/biomedical/programs/graduate/program-resources/timelines>.

### *Scheduling of the Thesis Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## Doctoral Thesis Examination

The examining committee consists of a minimum of five voting members: the Supervisory Committee members (including the supervisor and co-supervisor, if appropriate), one Internal Examiner and one member external to the University of Calgary (External examiner). The Internal Examiner can be an approved Biomedical Engineering Graduate Program Supervisor. At least one of either a) the Supervisory Committee (excluding supervisor and co-supervisor) or b) the Internal Examiner, must be a Biomedical Engineering Graduate Program Approved Supervisor.

The student shall make a public 60 minute presentation (45 minute presentation plus 15 minutes for questions) of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in the PhD program will not be admitted without funding from an interested supervisor. Please see the Biomedical Engineering Graduate Program handbook for more details.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

General Program Information

## Contact Information

Engineering Student Centre

Location: Engineering C 205

Student Information: [engginfo@ucalgary.ca](mailto:engginfo@ucalgary.ca) or 403.220.5732

Website: [schulich.ucalgary.ca](https://schulich.ucalgary.ca)

## Introduction

## UCalgary

The Schulich School of Engineering at the University of Calgary was established in 1965. The degrees awarded by the Schulich School since its inception have been recognized by the Canadian Engineering Accreditation Board (CEAB). The engineering curriculum consists of a well-balanced mixture of traditional topics in engineering sciences and specialization in subjects relevant to current industrial practice. The academic staff and students of the Schulich School of Engineering come from all parts of the world, giving the Schulich School its uniquely friendly and international atmosphere.

### Enquiries

Enquiries regarding admission, registration, interpretation of regulations, or any matter regarding undergraduate studies in Engineering should be directed to the Engineering Student Centre, Engineering C 205, telephone 403.220.5732. Students and prospective students are invited to view pertinent information available through the engineering website, [schulich.ucalgary.ca/](http://schulich.ucalgary.ca/).

### Admissions

#### Program Admissions Information

Prospective students wishing to enter the Bachelor of Science (BSc) in Biomedical Engineering must meet the criteria listed in section **3.1 Admissions** of this Calendar.

### Program Details

#### Simple Requisites

##### Schulich School of Engineering Requirements

###### Type

Completion Requirement

###### School Regulations

###### Complete ALL of the following Requirement Sets:

- Schulich School of Engineering - Registration
- Schulich School of Engineering - Course Work
- Schulich School of Engineering - Academic Performance, Review, and Student Standing
- Schulich School of Engineering - Examinations
- Schulich School of Engineering - Graduation

For other regulations related to the Schulich School of Engineering see **3. Schulich School of Engineering Regulations**.

###### Additional Comments:

##### Biomedical Engineering, Regular Program

###### Type

Completion Requirement

###### First Year Curriculum

###### Common to all programs:

- [First Year Curriculum](#)

###### Biomedical Engineering - Required Courses

###### Earn at least 81 credits from the following:

- Engineering 349
- 6 units from Engineering 501\* and 502\*; or Engineering 503\* and 504\*

- Digital Engineering 319
- Biomedical Engineering 300, 301, 309, 322, 381, 383, 388, 401, 415, 455, 468, 478, 488
- Mathematics 375
- Chemistry 357
- 6 units of Technical Elective Courses
- 6 units of Technical Foundation Courses
- 12 units of Biomedical Technical Elective Courses

*\*The capstone project will require approval to ensure that it has sufficient biomedical engineering content.*

Notes:

- *Electrical Engineering 582 and Manufacturing Engineering 529 may be taken as a Technical Elective if not used to meet Technical Foundation requirements.*
- *Chemical Engineering 535 may be taken as a Biomedical Technical Elective if not used to meet Technical Foundation requirements*

#### Complementary Studies - Specified Courses

The following 4 complementary studies courses are required for all students in the School:

**Earn at least 12 credits from the following:**

- Engineering 209 (Economics 209) - not open to first-year students
- Engineering 213 or Communications Studies 363
- Engineering 481
- Engineering 513

#### Complementary Studies - General Courses

Two general complementary studies courses are required for all students in the School:

**Earn at least 6 credits from the following:**

- General Complementary Studies Courses

**Additional Comments:**

#### Biomedical Engineering, Digital Engineering Minor

Type

Completion Requirement

#### Required Courses - Biomedical Engineering, Digital Engineering Minor

In addition to the required courses for Biomedical Engineering, the following courses must be completed:

**Earn at least 21 credits from the following:**

- Digital Engineering 310, 311, 410, 411, 510, 511
- 3 units of Digital Engineering Technical Electives

**The following Biomedical Engineering Required Courses are NOT required for this program:**

- Biomedical Engineering 415
- 3 units of the 6 required units of Technical Foundation Courses
- 3 units of the 6 required units of Technical Elective Courses
- 6 units of the 12 required units of Biomedical Technical Elective Courses

**Additional Comments:**

## Biomedical Engineering/BComm Combined Degree Program

### Type

### Completion Requirement

#### Required Courses - Biomedical Engineering/BComm Combined Degree Program

In addition to the required courses for Biomedical Engineering, students must complete courses for the Bachelor of Commerce. Refer to the [Haskayne School of Business](#) and the [Bachelor of Commerce](#) for more information.

#### Complete ALL of the following Course Sets:

- Economics 201†
- Economics 203†
- Junior English (3 units)†
- Strategy and Global Management 217†

†The courses listed above are required for the Bachelor of Commerce and are used to substitute for some of the Complementary Studies (listed above) in the Biomedical Engineering, Regular Program.

The following Biomedical Engineering Required Courses are NOT required for this program:

- Engineering 209 (Economics 209)
- Engineering 213 or Communications Studies 363
- 6 of the 6 units of General Complementary Studies
- 3 units of Technical Foundations Courses
- 3 units of Technical Elective Courses

### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Schulich School of Engineering - Minors
- Schulich School of Engineering - Combined Degrees
- Embedded Certificates
- Engineering Internship Program

### Additional Comments:

## Overview

### General Program Information

A Graduate Specialization in Medical Imaging is offered in conjunction with the following graduate programs:

- Biomedical Engineering
- Electrical and Computer Engineering
- Medical Sciences
- Neurosciences
- Physics and Astronomy

- Psychology

The specialization is offered at the MSc and PhD level.

Location: FMC MRG 006

Program number: 403.944.8354

Email address: <mailto:medi@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/programs/medical-imaging-specialization/graduate-specialization>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization.

Admission into a graduate program that offers the Graduate Specialization in Medical Imaging and submission and approval of a written request to join the Specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Medical Imaging specialization must meet the following requirements:

- MSc students must take a minimum of 6 units (the core and an elective course). PhD students take at least 9 units (the core and two elective courses). PhD students previously completing the MSc specialization in Medical Imaging will be required to complete an additional 3 units (one elective course).
- Medical Imaging-related research thesis.
- Attendance and annual presentation in the [Advanced Imaging Seminar Series](#).

These requirements are in addition to the core requirements of a specific participating graduate program. In most programs, the medical imaging graduate courses would count towards graduate program elective courses. In some graduate programs, participation in the specialization may require students to take an additional graduate course or courses.

Core required course:

##### Complete ALL of the following Courses:

- MDSC689.01 - Medical Imaging Techniques

Elective courses:

##### Complete ANY of the following Courses:

- ENEL697 - Digital Image Processing  
**AND** MDSC689.02 - Advanced Magnetic Resonance Imaging  
**AND** MDSC689.03 - Advanced Medical Image Processing  
**AND** MDSC689.11 - Medical Imaging Applications  
**AND** MDSC689.99 - Medical Imaging Project

- [ENME619 Special Problems](#),36
- Neuroscience 5850 at The University of Lethbridge
- Other Medical Imaging-related graduate courses with prior approval of specialization and graduate program

## Additional Comments:

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process. See Advanced Credit for further information.

### Credit For Undergraduate Courses

Credit (in the specialization) will not be given for 500-level courses.

### Time Limit, Supervisory Assignments and Required Examinations

See requirements of home program.

### Research Proposal Requirements

Research proposal must be on a Medical Imaging topic and fit into a research area broadly defined by the Specialization (see [website](#) for information).

Image Acquisition and Reconstruction - Development of algorithms suitable for accurate imaging using existing technologies (e.g., MR, CT) and emerging methods (e.g., microwaves).

Signal Processing for Information Synthesis - Development of robust strategies for the assessment of brain and other organ function via advanced signal processing.

Quantitative Imaging and Analysis - Development of software engineering approaches, validation and testing for the creation of resilient methods for quantitative imaging.

A copy of the proposal must be provided to the specialization office within 12 months of starting the program.

In programs that do not require submission of a research proposal, a suitable proposal should be developed by the student within 12 months of starting the specialization, approved by the supervisor and supervisory committee (where appropriate), and submitted to the Specialization office.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

See home program. Additional funding may be available through the specialization or other University sources for well-qualified students.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Stem Cell and Regenerative Medicine at the Master's and Doctoral

## UCalgary

The University of Calgary offers a primary / specialization in Stem Cell and Regenerative Medicine at the Master's and Doctoral levels for students registered in the following faculties and graduate programs:

- Biomedical Engineering
- Veterinary Medical Sciences

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

### Biomedical Engineering BMEN

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://research.ucalgary.ca/bme/graduate>

### Veterinary Medical Sciences VMS

Email address: <mailto:vmgrad@ucalgary.ca>

Web page URL: <http://vet.ucalgary.ca/graduate>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization. See:

- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Veter](#)
- [PHD Veteri](#)

Applicants must meet the [admission requirements](#) of the Faculty of Graduate Studies and the home program that offers the Stem Cell and Regenerative Medicine specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Stem Cell and Regenerative Medicine specialization must meet the following course requirements:

- a) [VETM702 Adv Topics Stem Cell Biol](#)
- b) [MDSC710 Business & Careers Biotech](#)

- All SCRM students must attend and participate in the Reproduction and Regenerative Medicine Research Group monthly seminar series. Attendance is a mandatory program requirement and will be recorded. This is an ongoing, mandatory educational activity for the duration of the graduate program and is routinely attended by graduate supervisors.
- All SCRM students must attend and participate in the weekly Reproduction and Regenerative Medicine Research group journal club. Attendance is a mandatory program requirement and will be recorded. This is an ongoing, mandatory educational activity for the duration of the graduate program, which will be attended by graduate supervisors on a rotary basis.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

See home program for information on time limits, supervisory assignments, required examinations, research proposal requirements and financial assistance.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Wearable Technology at the master's and doctoral levels for students registered in the following faculties and graduate programs:

- Faculty of Kinesiology
- Biomedical Engineering Graduate Program
- Geomatics Engineering Graduate Program
- Department of Electrical and Software Engineering
- Department of Computer Science
- Department of Psychology
- Computational Media Design Graduate Program

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

Faculty of Kinesiology

Location: KNB 269

Program number: 403.220.7019

Email address: <mailto:kirsten.penrose@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates/our-programs/wearable>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Wearable Technology specialization are available on the Future Students website for the home graduate program.

- [MSCT Kines](#)
- [PHD Kinesi](#)
- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Geoma](#)
- [PHD Geomat](#)
- [Engineerin](#)
- [Engineerin](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Comp](#)
- [PhD Comp M](#)
- [MSCT Psych](#)

- [PHD Psycho](#)

Applicants must meet the [admission](#) requirements of the Faculty of Graduate Studies and the home program that offers the Wearable Technology specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

##### MSc (thesis-based)

In addition to meeting the requirements of Faculty of Graduate Studies ([see regulations](#)) and the home program, MSc students in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, supervisor, and supervisory committee.

##### Doctor of Philosophy

In addition to meeting the requirements of Faculty of Graduate Studies and the home program, PhD trainees in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)\*
4. One (3 unit) elective in Biomechanics, OR Data Science, OR Data Visualization\*\* at the 600 or 700 level.

*\*With the support of the student's home program and Faculty of Graduate Studies, the student may complete Kinesiology 612 either before or after admission to candidacy.*

*\*\*Must be approved by the specialization Director, the student's Supervisor and Supervisory Committee.*

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, Supervisor, and Supervisory Committee.

Students are expected to attend the annual Wearable Technology Workshop held each Fall semester and participate in the Wearable Technology Lecture series.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process.

### Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

### Supervisory Assignments

See requirements of home program.

### Required Examinations

See requirements of home program and the Faculty of Graduate Studies ([Academic Regulations](#)).

### Financial Assistance

See home program.

## Military & Strategic Studies; Centre for Department

The Department of Centre for Military and Strategic Studies is part of the Faculty of Arts.

For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Centre for Military & Strategic Studies](#).

## Programs

### Overview

#### General Program Information

The course-based Master of Strategic Studies is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-master-strategic-studies-course-based>.

In addition to the [admission](#) requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

- a) A four-year bachelor's degree with a grade point average of at least 3.40 on a four-point scale.
- b) A writing sample.
- c) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test;

a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

MSS, course-based students will complete 24 units of coursework consisting of:

a) 12 units of core courses:

**Complete ALL of the following Courses:**

- HTST655 - (STST 655)Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST647 - 21st Century Security Issues  
**AND** STST610 - Questions and Methods  
**AND** STST612 - Questions and Methods II

b) 9 units of additional graduate courses which may include, but is not limited to:

**Complete ANY of the following Courses:**

- ANTH641 - Seminar in Civil-Military Relations  
**OR** HTST637 - Topics in Military History  
**OR** HTST655 - (STST 655)Classics Of Strategy  
**OR** POLI619 - War and Interpretation  
**OR** POLI633 - US Security Policy  
**OR** POLI643 - Law and Armed Conflict  
**OR** POLI675 - Selected Topics in Advanced Comparative Politics  
**OR** POLI681 - Advanced Analysis of International Relations  
**OR** POLI687 - Advanced Studies in Canadian Arctic Security  
**OR** POLI689 - Unconventional Warfare  
**OR** STST609 - The Canadian Military in the Second World War  
**OR** STST611 - Canadian Military Studies  
**OR** STST613 - The Canadian Military in the First World War  
**OR** STST649 - Special Topics in Military, Security and Strategic Studies  
**OR** STST651 - Reading Seminar  
**OR** STST653 - Research Seminar  
**OR** STST663 - Wars - Causes & Aftermaths

With the approval of the Graduate Program Director, any graduate course pertinent to the student's studies may be taken. Also consult the program website <https://arts.ucalgary.ca/centre-military-security-strategic-studies> for a list of other recommended graduate courses.

#### Additional Comments:

c) **STST653 Research Seminar** (3 units) research paper

\*Skills Internship Option: An extra to degree option available to students upon completion of all degree requirements. Through the Faculty of Graduate Studies students may take a Transformative Talent Internship designed to explore career options and develop practical skills: <https://grad.ucalgary.ca/my-gradskills/experiential-learning/internships>.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

In the course-based master's program, **advanced credit** may be given for a maximum of two courses (6 units) at the senior undergraduate (500) level. The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

## Flexible Grade Option (CG Grade)

The Centre for Military, Security and Strategic Studies for our MSS course-based program will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

With the approval of the Graduate Director, students enrolled in the course-based MSS program may apply to take one 500-level course for graduate credit but are required to complete additional requirements for the course.

## Time Limit

Expected completion time is one year for the course-based MSS. Maximum completion time is four years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-master-strategic-studies-thesis-based>.

In addition to the **admission** requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

- a) A four-year bachelor's degree with a grade point average of at least 3.40 on a four-point scale.
- b) A writing sample.
- c) An agreement to supervise by a potential supervisor.
- d) A research proposal.
- e) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test; a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- f) Two letters of reference.
- g) For applicants in the thesis-based MSS, email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, the Centre for Military, Security and Strategic Studies requires that all master's students complete core courses and areas of concentration courses.

MSS, thesis-based students will complete 21 units of coursework consisting of:

- a) 12 units of core courses:

##### Complete ALL of the following Courses:

- HTST655 - (STST 655)Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST610 - Questions and Methods  
**AND** STST612 - Questions and Methods II  
**AND** STST647 - 21st Century Security Issues

- b) 9 units of additional graduate courses which may include, but are not limited to:

##### Complete ANY of the following Courses:

- ANTH641 - Seminar in Civil-Military Relations  
**OR** HTST637 - Topics in Military History  
**OR** HTST655 - (STST 655)Classics Of Strategy  
**OR** POLI619 - War and Interpretation  
**OR** POLI633 - US Security Policy  
**OR** POLI643 - Law and Armed Conflict  
**OR** POLI675 - Selected Topics in Advanced Comparative Politics  
**OR** POLI681 - Advanced Analysis of International Relations  
**OR** POLI687 - Advanced Studies in Canadian Arctic Security

**OR POLI689 - Unconventional Warfare**  
**OR STST609 - The Canadian Military in the Second World War**  
**OR STST611 - Canadian Military Studies**  
**OR STST613 - The Canadian Military in the First World War**  
**OR STST649 - Special Topics in Military, Security and Strategic Studies**  
**OR STST651 - Reading Seminar**  
**OR STST653 - Research Seminar**  
**OR STST663 - Wars - Causes & Aftermaths**

**Additional Comments:**

With the approval of the Graduate Program Director, any graduate course pertinent to the student's studies may be taken. Also consult the program website <https://arts.ucalgary.ca/centre-military-security-strategic-studies> for a list of other recommended graduate courses.

MSS thesis-based students are required to present their supervisor with a formal thesis proposal normally no later than the end of their second term (usually, the end of the Winter Term of their first year for students who entered the program as thesis-based students; for students transferring from the course-based program, where at all possible the same general timeline should apply).

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

**Flexible Grade Option (CG Grade)**

The Centre for Military, Security and Strategic Studies for our MSS thesis-based program will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

With the approval of the Graduate Director, students enrolled in the thesis-based MSS program may apply to take one 500-level course for graduate credit but are required to complete additional requirements for the course.

**Time Limit**

Expected completion time is two years for the thesis-based MSS. Maximum completion time is four years.

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

An incoming student for the thesis-based program must have a proof of agreement to supervise from one or more faculty

members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

## Thesis Examination

In addition to the Faculty of Graduate Studies [Thesis Examination](#) requirements, the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Doctoral students will normally be admitted as full-time students. In consultation with the Faculty of Graduate Studies, the Graduate Program Director may, however, approve requests for part-time registration or transfer from full-time to a part-time status.

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-doctor-philosophy-thesis-based>.

In addition to the [admission](#) requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

Applicants will be admitted only if the CMSS Graduate Committee is satisfied that adequate supervision is likely to be available for the duration of their studies. Successful applicants should be aware that admission to the program depends upon a match between student and faculty interests, as well as availability of faculty supervision. Students are also advised to consult the

## UCalgary

Faculty of Graduate Studies and the [academic regulations](#) section in this calendar.

Prerequisites for admission to the PhD program are:

- a) A completed master's degree.
- b) Normally, a minimum of two years of professional, on-going experience (or equivalent) in the security and defence field.
- c) A GPA of 3.70 on a four-point scale over all completed graduate courses in the master's program; 3.40 in the undergraduate program over the last 60 units or two years of study.
- d) A detailed statement of the proposed thesis research explaining how the thesis would relate to one's work experience and/or professional career goals.
- e) A representative piece of written work, normally a master's thesis chapter or major research paper.
- f) A tentative agreement from a faculty member to supervise. Students need to contact potential supervisors at the beginning of the application process.
- g) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test; a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- h) Two letters of reference.
- i) Email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements:

Doctoral students will normally complete 15 units of coursework consisting of:

**Complete ALL of the following Courses:**

- HTST655 - (STST 655) Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST647 - 21st Century Security Issues  
**AND** STST751 - Reading Seminar  
**AND** STST753 - Research Seminar

#### Additional Comments:

It is strongly recommended that PhD students also take [STST610 Questions and Methods](#) and [STST612 Questions and Methods II](#).

\*For candidacy examinations, students have two major fields of study. One of these will be strategic studies and the other the dissertation area. Students will be required to take 3 units preparation in each field, namely [STST751 Reading Seminar](#) and [STST753 Research Seminar](#).

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

### Flexible Grade Option (CG Grade)

The Centre for Military, Security and Strategic Studies will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Expected completion time for the PhD in Military and Strategic Studies is four years and maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

An incoming student must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

The Supervisory Committee should be appointed as quickly as possible but no later than three months after the appointment of the Permanent Supervisor.

### Required Examinations

In addition to the Faculty of Graduate Studies **Thesis Examination** requirements, the program requires:

### Candidacy

Doctoral students must complete a written thesis proposal, which is approved by their Supervisory Committee in a thesis proposal meeting, as well as pass oral and written Field of Study examinations. For complete details of candidacy requirements and examination format, see

[https://www.ucalgary.ca/pubs/calendar/grad/current/cmss.ucalgary.ca/phd/program\\_requirements](https://www.ucalgary.ca/pubs/calendar/grad/current/cmss.ucalgary.ca/phd/program_requirements).

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Chemical & Petroleum Engineering; Dept of Department

The Department of Chemical and Petroleum Engineering is part of the Schulich School of Engineering.

For more information concerning undergraduate program regulations and requirements, refer to the [Schulich School of Engineering](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Chemical and Petroleum Engineering](#).

### Programs

#### Overview

General Program Information

#### Contact Information

Engineering Student Centre

Location: Engineering C 205

Student Information: [engginfo@ucalgary.ca](mailto:engginfo@ucalgary.ca) or 403.220.5732

Website: [schulich.ucalgary.ca](http://schulich.ucalgary.ca)

#### Introduction

The Schulich School of Engineering at the University of Calgary was established in 1965. The degrees awarded by the Schulich School since its inception have been recognized by the Canadian Engineering Accreditation Board (CEAB). The engineering curriculum consists of a well-balanced mixture of traditional topics in engineering sciences and specialization in subjects relevant to current industrial practice. The academic staff and students of the Schulich School of Engineering come from all parts of the world, giving the Schulich School its uniquely friendly and international atmosphere.

#### Enquiries

Enquiries regarding admission, registration, interpretation of regulations, or any matter regarding undergraduate studies in Engineering should be directed to the Engineering Student Centre, Engineering C 205, telephone 403.220.5732. Students and prospective students are invited to view pertinent information available through the engineering website, [schulich.ucalgary.ca/](http://schulich.ucalgary.ca/).

#### Admissions

Program Admissions Information

Prospective students wishing to enter the Bachelor of Science (BSc) in Chemical Engineering must meet the criteria listed in section [3.1 Admissions](#) of this Calendar.

#### Program Details

Simple Requisites

Schulich School of Engineering Requirements

Type

Completion Requirement

#### School Regulations

##### Complete ALL of the following Requirement Sets:

- Schulich School of Engineering - Registration
- Schulich School of Engineering - Course Work
- Schulich School of Engineering - Academic Performance, Review, and Student Standing
- Schulich School of Engineering - Examinations
- Schulich School of Engineering - Graduation

For other regulations related to the Schulich School of Engineering see [3. Schulich School of Engineering Regulations](#).

#### Additional Comments:

#### Chemical Engineering, Regular Program

##### Type

##### Completion Requirement

#### First Year Curriculum

##### Common to all programs:

- [First Year Curriculum](#)

#### Chemical Engineering - Required Courses

##### Earn at least 69 credits from the following:

- Engineering 311
- Chemical Engineering 300, 307, 327, 331, 350, 400, 401, 403, 405, 417, 421, 429, 450, 500, 501, 550, 551
- Chemistry 357, 579
- Digital Engineering 319
- Mathematics 375
- 3 units of Science Options\*

*\*Other courses from the Faculty of Science may be substituted with approval of the student's department and the relevant department in the Faculty of Science.*

#### Technical Electives

##### Earn at least 12 credits from the following:

- 9 units of Group A Chemical Engineering Technical Electives
- 3 units of Group A or Group B Chemical Engineering Technical Electives

##### Notes:

1. One of the Group B Technical Elective course requirements may be satisfied by a 500-level or higher-level course from the Schulich School of Engineering with the approval of the Department Head.
2. Students in the BSc Chemical Engineering/BComm Combined Degree Program cannot take Engineering 515 as a Technical Elective.

#### Complementary Studies - Specified Courses

##### Earn at least 9 credits from the following:

- Engineering 213 or Communications Studies 363
- Engineering 481
- Engineering 513

#### Complementary Studies - General Courses

Three general complementary studies courses are required for students in Chemical Engineering:

**Earn at least 9 credits from the following:**

- General Complementary Studies Courses

**Additional Comments:**

#### Chemical Engineering, Biomedical Engineering Minor

Type

Completion Requirement

Required Courses - Chemical Engineering, Biomedical Engineering Minor

In addition to the required courses for Chemical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Biomedical Engineering 301, 309, 401, 415
- 9 units from Biomedical Minor Technical Electives

**The following Chemical Engineering Required Courses are NOT required for this program:**

- 3 units of the required 3 units of Science Options
- 9 units of the required 9 units of Group A Chemical Engineering Technical Electives

**Additional Comments:**

#### Chemical Engineering, Digital Engineering Minor

Type

Completion Requirement

Required Courses - Chemical Engineering, Digital Engineering Minor

In addition to the required courses for Chemical Engineering, the following courses must be completed:

**Earn at least 21 credits from the following:**

- Digital Engineering 310, 311, 410, 411, 510, 511
- 3 units of Digital Engineering Technical Electives

**The following Chemical Engineering Required Courses are NOT required for this program:**

- 3 units of the 3 required units of Science Options
- 9 units of the 9 required units of Group A Chemical Engineering Technical Electives

**Additional Comments:**

#### Chemical Engineering, Energy and Environment Minor

Type

Completion Requirement

Required Courses - Chemical Engineering, Energy and Environment Minor

In addition to the required courses for Chemical Engineering, the following courses must be completed:

**Earn at least 21 credits from the following:**

- Energy and Environment, Engineering 355

- Energy and Environment, Engineering 377
- Energy Management 301
- Chemistry 321 (required for Science option)
- Science 529
- Energy and Environment Technical Electives\*

\*Students are required to complete 6 units in Energy Engineering Technical Electives

**The following Chemical Engineering Required Courses are NOT required for this program:**

- 3 units of the 3 required units of Science Options
- 3 units of the 6 required units of General Complementary Studies
- 9 units of the 9 required units of Group A Chemical Engineering Technical Electives

**Additional Comments:**

#### Chemical Engineering, Minor in Petroleum Engineering

Type

Completion Requirement

Required Courses - Chemical Engineering, Minor in Petroleum Engineering

In addition to the required courses for Chemical Engineering, the following courses must be completed:

Earn at least 21 credits from the following:

- Petroleum Engineering 429, 511, 531, 543, 551
- 3 units from Petroleum Engineering 507, 509, 513, 515, 521, 523, 525, 533, 561, 563, 571, 573
- Geology 377 (required for Science option)

**The following Chemical Engineering Required Courses are NOT required for this program:**

- Chemical Engineering 500, 550, 551
- 6 units of the 9 required units of Group A Chemical Engineering Technical Electives

**Additional Comments:**

#### BSc Chemical Engineering/BComm Combined Degree Program

Type

Completion Requirement

Required Courses – BSc Chemical Engineering/BComm Combined Degree Program

In addition to the required courses for Chemical Engineering, students must complete courses for the Bachelor of Commerce. Refer to the [Haskayne School of Business](#) and the [Bachelor of Commerce](#) for more information.

**Complete ALL of the following Course Sets:**

- Economics 201†
- Economics 203†
- Junior English (3 units)†
- Strategy and Global Management 217†

†The courses listed above are required for the Bachelor of Commerce and are used to substitute for some of the Complementary Studies (listed above) in the Chemical Engineering, Regular Program.

## The following Chemical Engineering Required Courses are **NOT** required for this program:

- Engineering 209 (Economics 209)
- Engineering 213 or Communication Studies 363
- 9 of the 9 units of General Complementary Studies
- 6 units of the 9 required units of Group A Chemical Engineering Technical Electives

Additional Comments:

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Schulich School of Engineering - Combined Degrees
- Schulich School of Engineering - Minors
- Minor Programs
- Embedded Certificates
- Engineering Internship Program

Additional Comments:

## Overview

### General Program Information

#### Specializations:

- Chemical Engineering
- Petroleum Engineering
- Biomedical Engineering (thesis-based only)\*
- Environ En
- Energy&Env
- Energy&Env

Master's thesis graduate students are normally admitted as full-time students. The Head of the Department or designate may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block B, Room 202

Program number: 403.220.7016

Email address: <mailto:cpeadmissions@ucalgary.ca>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-msc-thesis>.

In addition to the Faculty of Graduate Studies requirements for admission, the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters are required for thesis-based (MSc) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' requirements and the Schulich School of Engineering requirements, the Department normally requires:

A minimum of 12 units of graduate courses.

- a) All Master of Science students are required to complete **ENGG601 Professional Development I** and **ENGG603 Professional Development II** in the first year of their degree program in addition to the minimum program/course requirements for their specialization.
- b) Students must either present one research seminar at the annual Graduate Student Conference in the Winter Term or give an oral presentation at a science/engineering conference.
- c) Students must also complete core course requirements for their specialization as described:

**Complete ANY of the following Course Sets:**

- Engineering, TB, Core Courses for CHEM, BMEN, ENEN, ENEE, EESS Specializations  
**OR** Engineering TB Core Courses for Petroleum Eng Specialization

*Chemical Engineering, Petroleum Engineering and Biomedical Engineering specializations*

All Master of Science students must complete at least two of the core courses of their specialization.

Energy&Env

All Master of Science students must complete at least one of the core courses in their specialization.

Energy&Env

All Master of Science students must complete at least one of the core chemical engineering courses.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Not applicable.

### Time Limit

Typical completion time is one to two years for full-time students in a master's program. Maximum completion time is four years for a Master of Science.

See individual program pages on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-msc-thesis>.

### Other Information

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

All students are required to have a supervisor before the second annual registration. For students in the Master of Science degree program, a supervisor is normally appointed at the time of admission.

### Required Examinations

#### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

##### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the

committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Chemical Engineering
- Petroleum Engineering
- [Environ En](#)
- [Energy&Env](#)
- [Energy&Env](#)
- [Reservoir](#)
- Petroleum Reservoir Engineering\*
- Petroleum Exploration Engineering\*

\*The Department is currently not accepting applications for these specializations.

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Chemical and Petroleum Engineering program.

### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/chemical-petroleum>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-meng-course>.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.

b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.

c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department requires:

**Complete ANY of the following Requirement Sets:**

- MEng, Course-based, Chemical Engineering Specialization  
**AND** MEng, Course-based, Petroleum Engineering Specialization

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

For Interdisciplinary Specializations see:

- [Environ En](#)
- [Energy&Env](#)
- [Energy&Env](#)
- [Reservoir](#)

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion times are six years for a Master of Engineering (course-based). The Master of Engineering, course-based with Internship is normally a three-year program.

See individual program pages on the Future Students [website](#).

### Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Chemical Engineering
- Petroleum Engineering
- Biomedical Engineering\*
- [Environ En](#)
- [Energy&Env](#)
- [Energy&Env](#)

\*The Department is currently not accepting applications for this specialization.

The Schulich School of Engineering does not formally offer a part-time option.

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block B, Room 202

Program number: 403.220.7016

Email address: <mailto:cpeadmissions@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/chemical-petroleum>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-meng-thesis>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters are required for thesis-based (MSc) graduate programs. References are not required for course-based (MEng) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

A minimum of 12 units of graduate courses.

- a) All Master of Science and doctoral students are required to complete [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#) in the first year of their degree program in addition to the minimum program/course requirements for their specialization.
- b) Students must either present one research seminar at the annual Graduate Student Conference in the Winter Term or give an oral presentation at a science/engineering conference.
- c) Students must also complete core course requirements for their specialization as described:

##### Complete ALL of the following Course Sets:

- Engineering, TB, Core Courses for CHEM, BMEN, ENEN, ENEE, EESS Specializations
- Engineering TB Core Courses for Petroleum Eng Specialization

*Chemical Engineering, Petroleum Engineering and Biomedical Engineering specializations*

All Master of Science students must complete at least two of the core courses of their specialization.

*Environmental Engineering and Energy and Environment specializations*

All Master of Science students must complete at least one of the core courses in their specialization.

*Energy and Environmental Systems specialization*

All Master of Science students must complete at least one of the core chemical engineering courses.

## Additional Comments:

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

## Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not applicable.

## Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion time is four years for a Master of Engineering (thesis-based).

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

## Other Information

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

## Additional Comments:

## Supervisory Assignments

All students are required to have a supervisor before the second annual registration. For students in the Doctor of Philosophy degree program, a supervisor is normally appointed at the time of admission.

## Final Oral Examination

*Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Chemical Engineering
- Petroleum Engineering
- Biomedical Engineering\*
- [Environ En](#)
- [Energy&Env](#)
- [Energy&Env](#)

\*The Department is currently not accepting applications for this specialization.

Doctoral graduate students are normally admitted as full-time students. The Head of the Department or designate may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block B, Room 202

Program number: 403.220.7016

Email address: <mailto:cpeadmissions@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/chemical-petroleum>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-phd>.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

a) MSc degree, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.

- b) A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- c) Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- d) Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the Department normally requires:

A minimum of 12 units of graduate courses.

- a) All doctoral students are required to complete [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#) in the first year of their degree program in addition to the minimum program/course requirements for their specialization.
- b) Students must either present one research seminar at the annual Graduate Student Conference in the Winter Term or give an oral presentation at a science/engineering conference.
- c) Students must also complete core course requirements for their specialization as described:

##### Complete ANY of the following Course Sets:

- Engineering, TB, Core Courses for CHEM, BMEN, ENEN, ENEE, EESS Specializations  
OR Engineering TB Core Courses for Petroleum Eng Specialization

*Chemical Engineering, Petroleum Engineering and Biomedical Engineering specializations*

All doctoral students must have completed at least four of the core courses of their specialization before proceeding to the candidacy examination. Doctoral students in the Chemical Engineering specialization can substitute one core course for a core course in the Petroleum Engineering specialization. Doctoral students in the Petroleum Engineering specialization can substitute one core course for a core course in the Chemical Engineering specialization.

##### [Energy&Env](#)

All doctoral students must have completed at least two of the core courses in their specialization before proceeding to the candidacy examination. Requirements for these specializations are listed under the corresponding sections.

##### [Energy&Env](#)

All doctoral students must have completed at least two of the core chemical engineering courses before proceeding to the candidacy examination.

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed

degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Not applicable.

### Time Limit

Typical completion time is three to four years in a doctoral program. Maximum completion time is six years for a doctoral program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

### Other Information

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

All students are required to have a supervisor before the second annual registration. For students in the Doctor of Philosophy degree program, a supervisor is normally appointed at the time of admission.

### Required Examinations

#### Doctoral Candidacy Requirements

All Doctoral students are required to pass a written Field of Study examination and an oral thesis proposal examination.

Specific details of the examination format and other candidacy requirements can be found at <https://grad.ucalgary.ca/current-students/thesis-based-students/exams/candidacy>.

### Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

#### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Reservoir Characterization to students registered in an existing course-based master's program in the Departments of Chemical and Petroleum Engineering or Geoscience. The program integrates reservoir engineering, geology, geophysics, and reservoir characterization. The student will receive the degree offered by the home program:

- Master of Engineering in Chemical and Petroleum Engineering (MEng)
- Master of Science in Geoscience (MSc)

All students will normally be considered to have full-time status. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Director.

Geoscientists should contact the Department of Geoscience and engineers should contact the Department of Chemical and Petroleum Engineering for further information.

### Department of Chemical and Petroleum Engineering

Location: Schulich School of Engineering, Room B202

Program number: 403.220.4802

Fax: 403.284.4852

Email Address: <mailto:chemandpetenggrad@ucalgary.ca>

Web page URL: <http://schulich.ucalgary.ca/departments/chemical-and-petroleum-engineering>

### Department of Geoscience

Location: Earth Sciences 118

Program number: 403.220.3254

Fax: 403.284.0074

Email Address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website:

Master of Engineering in Chemical and Petroleum Engineering (MEng): <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-meng-course>.

Master of Science in Geoscience (MSc): <https://grad.ucalgary.ca/future-students/explore-programs/geoscience-msc-course>.

In addition to Faculty of Graduate Studies **admission** requirements, all applicants must meet the minimum standards of the home program.

Acceptance into the Master of Engineering program would normally require the completion of the equivalent of the Bachelor of Science in Oil and Gas Engineering degree offered by the University of Calgary. However, individuals with more diverse background and industry experience may be considered for admission.

Acceptance into the Master of Science program requires the completion of a Bachelor of Science in Geoscience plus a course in Well Logging and Formation Evaluation such as Petroleum Engineering 507 at the University of Calgary, or equivalent.

Applicants with an undergraduate degree in geology must demonstrate acceptable proficiency in mathematics. It is an asset for geologists to have taken additional mathematics courses as technical electives during their undergraduate degree.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

To address the broad background of students entering the Reservoir Characterization Interdisciplinary Specialization, there are three streams for completion: Engineering, Geology or Geophysics.

In addition to Faculty of Graduate Studies ([see regulations](#)) and the home program requirements, the Specialization requires:

All students must take at least six courses at the 600 and/or 700 level.

**Students in Engineering are required to take:**

**Complete ALL of the following Courses:**

- GOPH559 - Imaging, Inversion, and Interpretation of Geophysical Data  
**AND** ENCH621 - Reservoir Simulation  
**AND** ENCH661 - Geostatistics for Reservoir Characterization  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which **MUST** be Geology or Geophysics:

**Complete ANY of the following Courses:**

- ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH619 - Special Problems  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering

**OR GLGY647 - Geology Well Log Applications**  
**OR GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy**  
**OR GLGY699 - Selected Topics in Geology**  
**OR GOPH667 - Introduction to Passive Seismic Monitoring**  
**OR GOPH671 - Inverse Theory & Applications I**

\*ENCH 619.63

\*GLGY 699.76

**Students in Geology are required to take:**

**Complete ALL of the following Courses:**

- ENPE523 - Introduction to Reservoir Engineering  
**AND ENCH621 - Reservoir Simulation**  
**AND OBHR668 - Seminar in the Management of Human Resources**
- ENCH698 - Reservoir Characterization for Field Development  
**AND GLGY698 - (ENCH698)Reservoir Characterization for Field Development**
- ENCH661 - Geostatistics for Reservoir Characterization  
**OR GLGY697 - Advanced Geostatistics**

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which **MUST** be Engineering:

**Complete ANY of the following Courses:**

- ENPE525 - Waterflooding and Enhanced Oil Recovery  
**OR ENPE533 - Petroleum Production Engineering**  
**OR ENPE543 - Geological Characterization of Oil and Gas Reservoirs**  
**OR ENCH619 - Special Problems**  
**OR ENCH629 - Secondary & Tertiary Recovery**  
**OR ENCH649 - Naturally Fractured Reservoirs**  
**OR ENCH657 - Advanced Reservoir Engineering**  
**OR ENCH687 - Petroleum Economics**  
**OR GOPH667 - Introduction to Passive Seismic Monitoring**  
**OR GLGY647 - Geology Well Log Applications**  
**OR GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy**  
**OR GLGY699 - Selected Topics in Geology**  
**OR GOPH559 - Imaging, Inversion, and Interpretation of Geophysical Data**

\*ENCH 619.63

\*GLGY 699.76

**Students in Geophysics are required to take:**

**Complete ALL of the following Courses:**

- ENPE523 - Introduction to Reservoir Engineering  
**AND ENCH621 - Reservoir Simulation**  
**AND ENCH661 - Geostatistics for Reservoir Characterization**

**AND OBHR668 - Seminar in the Management of Human Resources**

- ENCH698 - Reservoir Characterization for Field Development

**AND GLGY698 - (ENCH698)Reservoir Characterization for Field Development**

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which MUST be Engineering:

**Complete ANY of the following Courses:**

- ENPE525 - Waterflooding and Enhanced Oil Recovery  
**OR** ENPE533 - Petroleum Production Engineering  
**OR** ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH611 - Advanced Well Test Analysis (Inactive)  
**OR** ENCH629 - Secondary & Tertiary Recovery  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering  
**OR** ENCH687 - Petroleum Economics  
**OR** GOPH667 - Introduction to Passive Seismic Monitoring  
**OR** GLGY647 - Geology Well Log Applications  
**OR** GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy  
**OR** GLGY699 - Selected Topics in Geology

\*ENCH 619.63

\*GLGY 699.76

**Additional Comments:**

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

**Time Limit**

Expected completion time is two years and maximum completion time is six years.

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

Supervisors will be approved by the specialization Graduate Program Director.

## Required Examinations

After the conclusion of the Capstone Project, there will be a comprehensive oral examination of each student before an examining committee that includes a faculty member from each of the three disciplines. Each student will be expected to express in-depth knowledge in their area of expertise (Engineering, Geology, Geophysics), and to have a comprehensive knowledge of the significance of the other two areas in successful reservoir characterization.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

# Chemistry; Department of Department

The Department of Chemistry is part of the Faculty of Science.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Science](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Chemistry](#).

## Programs

### Overview

#### General Program Information

**Department Office:** Science A 229

**Telephone:** 403.220.5340

**Phone:** 403.220.5353

**Fax:** 403.284.1372

**Website:** [science.ucalgary.ca/chemistry](http://science.ucalgary.ca/chemistry)

**Email:** [chem.info@ucalgary.ca](mailto:chem.info@ucalgary.ca)

## Admissions

### Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

### Simple Requisites

#### Faculty of Science Minor Program Regulations

##### Type

Completion Requirement

For Minor Program regulations, refer to:

Complete ALL of the following Requirement Sets:

- Faculty of Science - Minor Programs

Additional Comments:

## Courses Constituting the Field of Chemistry

Type

Completion Requirement

Courses Constituting the Field of Chemistry

Earn at least 30 credits from the following:

- Courses Constituting the Field of Chemistry

Additional Comments:

## Required Courses - Minor Program

Type

Completion Requirement

Required Courses - Minor Program

Earn at least 18 credits from the following:

- 6 units - Chemistry 201 or 211; and 203 or 213
- 12 units - Chemistry 311, 351, 431; and 371 or 373

Note: Chemistry 371 and 373 have Physics and Mathematics prerequisites; see the course descriptions for more details.

Required Options - Minor Program

- 12 units - From the Field of Chemistry at the 300 level or above

Earn at least 12 credits from the following:

- Courses Constituting the Field of Chemistry

Additional Comments:

## Overview

General Program Information

Department Office: Science B 605

Telephone: 403.220.5224

Fax: 403.284.1372

Website: [science.ucalgary.ca/chemistry](http://science.ucalgary.ca/chemistry)

Email: [chem.info@ucalgary.ca](mailto:chem.info@ucalgary.ca)

## Admissions

Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Enrolment Limitations in Programs

Due to limited enrolment capacity in many senior courses in which there is a laboratory component, the Chemistry programs have a maximum capacity. For details on entry to the programs, see [Faculty Regulations](#).

## Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Chemistry is limited by laboratory space or other pedagogical considerations.

Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in Chemistry courses.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

##### Additional Comments:

##### Departmental vs. Faculty Regulations

Programs in the Department of Chemistry are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Courses Constituting the Field of Chemistry

##### Type

Completion Requirement

Courses Constituting the Field of Chemistry

Students must successfully complete a minimum of 57 units to a maximum of 66 units in Courses Constituting the Field of Chemistry while fulfilling the Program Requirements.

**Earn at least 57 credits from the following:**

- Courses Constituting the Field of Chemistry

#### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Program

Earn at least 66 credits from the following:

- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - Physics 211 or 221; and 223
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 36 units - Chemistry 311, 315, 351, 353, 371, 373, 431, 433, 453, 471; 531 or 533; Biochemistry 341 or 393
- 3 units - Physics 323 or 355
- 3 units - Mathematics 211 or 213
- 3 units - Statistics 327 or 205
- 3 units - Science 311

#### Required Options - Major Program

Earn at least 54 credits from the following:

- 6 units - From the Field of Chemistry at the 300 level or above
- 9 units - From the Field of Chemistry at the 500 level or above
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 15 units - Non-Major Field Requirement: Options that are not in the Field of Chemistry
- 9 units - Options

### Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

#### Recommended Program Sequence for the BSc in Chemistry

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science

- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

Additional Comments:

## Overview

### General Program Information

Department Office: Science B 605

Telephone: 403.220.5224

Fax: 403.284.1372

Website: [science.ucalgary.ca/chemistry](http://science.ucalgary.ca/chemistry)

Email: [chem.info@ucalgary.ca](mailto:chem.info@ucalgary.ca)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs

Due to limited enrolment capacity in many senior courses in which there is a laboratory component, the Chemistry programs have a maximum capacity. For details on entry to the programs, see [Faculty Regulations](#).

### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Chemistry is limited by laboratory space or other pedagogical considerations.

Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in Chemistry courses.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

Additional Comments:

## Department Regulations

### Type

Completion Requirement

### Additional Comments:

#### Departmental vs. Faculty Regulations

Programs in the Department of Chemistry are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Courses Constituting the Field of Chemistry

### Type

Completion Requirement

#### Courses Constituting the Field of Chemistry

Students must successfully complete a minimum of 66 units to a maximum of 78 units in Courses Constituting the Field of Chemistry while fulfilling the following requirements:

#### Earn at least 66 credits from the following:

- Courses Constituting the Field of Chemistry

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Chemistry

#### Earn at least 72 credits from the following:

- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - Physics 211 or 221 or 227; and 223
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 42 units - Chemistry 311, 315, 351, 353, 371, 373, 431, 433, 453, 471, 502; 531 or 533; Biochemistry 341 or 393
- 3 units - Physics 323 or 355
- 3 units - Mathematics 211 or 213
- 3 units - Statistics 327 or 205
- 3 units - Science 311

#### Required Options - Honours Chemistry

#### Earn at least 48 credits from the following:

- 6 units - From the Field of Chemistry at the 300 level or above
- 12 units - From the Field of Chemistry at the 500 level or above
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 3 units - Non-Major Field Requirement: Options outside of the Field of Chemistry
- 12 units - Options

## Additional Comments:

### Program Sequence

#### Type

Completion Requirement

#### Additional Comments:

##### Recommended Program Sequences for the BSc Honours in Chemistry

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

#### Additional Comments:

## Overview

### General Program Information

The MSc program is available for full-time study only.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.chem.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students [website](#).

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- a) A four-year degree or its equivalent.
- b) An admission grade point average of 3.00 or better on a four-point scale.
- c) Two reference letters.

An appropriate letter of recommendation is one written by an individual who can provide an assessment of the applicant's background and capabilities with respect to our department. An applicant currently registered in a graduate degree program, or who has recently completed a graduate degree program, must request one letter of reference from their program supervisor.

- d) For applicants required to prove proficiency in English: a minimum TOEFL score of 97 (Internet-based test), or an IELTS score of 7.0, or a PTE score of 68.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

- 7 units at the 500 level or above:
  - a minimum of 3 units will be Chemistry courses;
  - [CHEM654 Teaching and Mentoring in Chem](#);
  - 3 units of electives (Chemistry or other Faculty/Department)

#### Additional Requirements

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

[Advanced Credit](#) for graduate courses taken as an unclassified student, or qualifying student may be given for courses in which the student obtains a grade of "B" or higher.

A reduction in course requirements may be given for students who completed graduate courses at other institutions. This will be determined on program entry and after consultation with the research supervisor and the graduate office.

### Flexible Grade Option (CG Grade)

The Department of Chemistry will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) with the exception of [Chemistry 601](#) and [603](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

At least one-half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program will graduate credit be given for courses numbered 500-599, which are considered undergraduate courses. In addition to course prerequisites, consent of the department is required.

## Time Limit

Expected completion time is two years for the Master of Science degree. Maximum completion time is four years.

## Supervisory Assignments and Thesis Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are assigned an interim advisor (currently the Graduate Director) upon first registration in a program and must choose a permanent supervisor before the fifth month in program. Students must also choose two additional faculty members to serve as supervisory committee members.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

Before an examination can be scheduled, all members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is normally available to all qualified students in the form of Teaching Assistantships and Trust funded Assistantships. Assistantship funding is not normally available beyond twenty-eight months in a master's program.

For further information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

## Overview

### General Program Information

The PhD program is available for full-time study only.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.chem.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/chemistry-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

a) Two reference letters.

An appropriate letter of recommendation is one written by an individual who can provide an assessment of the applicant's background and capabilities with respect to our department. An applicant currently registered in a graduate degree program, or who has recently completed a graduate degree program, must request one letter of reference from their program supervisor.

b) For applicants required to prove proficiency in English: a minimum TOEFL score of 97 (Internet-based test), or an IELTS score of 7.0, or a PTE score of 68.

**For applicants with a Bachelor of Science (BSc) degree:**

a) A four-year Honours degree or its equivalent.

b) An admission grade point average of 3.70 or better on a four-point scale.

**For applicants with a Master of Science (MSc) degree:**

a) A Master of Science degree recognized by the Faculty of Graduate Studies.

b) An admission grade point average of 3.30 or better on a four-point scale.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

For students entering with a four-year Honours BSc degree or equivalent:

- 10 units at the 500 level or above:
  - a minimum of 6 units will be Chemistry courses;
  - **CHEM654 Teaching and Mentoring in Chem**;
  - 3 units of electives (Chemistry or other Faculty/Department).

For students entering with an MSc degree or equivalent.

- A minimum of 3 units and a maximum of 10 units. At the discretion of the Graduate Program Director, the number of courses will be determined by consultation between the student, the supervisor, and the Graduate Director.

Students who transfer to the doctoral program will be given credit for courses taken in the MSc program.

#### Copyediting

The department does not allow copyediting in students' theses.

#### Additional Requirements

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

**Advanced Credit** for graduate courses taken as an unclassified student, or qualifying student may be given for courses in which the student obtains a grade of "B" or higher.

A reduction in course requirements may be given for students who completed graduate courses at other institutions. This will be determined on program entry and after consultation with the research supervisor and the graduate office.

### Flexible Grade Option (CG Grade)

The Department of Chemistry will allow students to pursue the **Flexible Grade Option (CG Grade)** with the exception of **Chemistry 601** and **603**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

At least one-half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program will graduate credit be given for courses numbered 500-599, which are considered undergraduate courses. In addition to course prerequisites, consent of the department is required.

### Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Students are assigned an interim advisor (currently the Graduate Director) upon first registration in a program and must choose a permanent supervisor before the fifth month in program. Students must also choose two additional faculty members to serve as supervisory committee members.

### Required Examinations

#### Candidacy

All doctoral students must successfully complete a written thesis research proposal that is evaluated and approved by the Candidacy Field of Study Oral Examination committee.

Doctoral students are required to complete written and oral candidacy examinations. Further details may be obtained from the Department's Handbook of Graduate Studies available

at: [http://www.ucalgary.ca/chem/graduate/current\\_students/grad\\_students\\_handbook](http://www.ucalgary.ca/chem/graduate/current_students/grad_students_handbook).

The oral examination component will include questions on the research proposal.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Department requires:

#### *Scheduling of the Examination*

Before an examination can be scheduled, all members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is normally available to all qualified students in the form of Teaching Assistantships and Trust funded Assistantships. Assistantship funding is not normally available beyond fifty-two months in a doctoral program.

For further information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty of Science Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Program vs Faculty Regulations**

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

**Courses Constituting the Field of Environmental Science with a Concentration in Chemistry**

**Type**

Completion Requirement

**Courses Constituting the Field of Environmental Science with a Concentration in Chemistry**

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Chemistry while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Major with a Concentration in Chemistry**

**Earn at least 87 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 201 or 211; and 203 or 213
- 33 units - Chemistry 311, 315, 321, 351, 353, 371, 431, 515; 423 or 425; 433 or 373; 521 or 541
- 3 units - Statistics 327 or Biology 315
- 3 units - Earth 210
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 9 units - Physics 211 or 221; and 223 and 323
- 15 units - Environmental Science 401, 501, 502, 503

**Required Options - Major with a Concentration in Chemistry**

**Earn at least 33 credits from the following:**

- 3 units - Options from the Field of Chemistry
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 3 units – Non-Major Field Requirement: Options outside of the Field of Environmental Science (Chemistry

- Concentration)
- 12 units - Options

**Additional Comments:**

## Program Sequence

Type

Completion Requirement

**Additional Comments:**

### Recommended Program Sequence for the Chemistry Concentration

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Chemistry Concentration.

## Degree Options

Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

**Additional Comments:**

## Overview

### General Program Information

Office: Science B 149

Telephone: 403.220.8600

Website: [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

Email: [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

# UCalgary

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

##### Type

#### Completion Requirement

##### Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Chemistry while fulfilling the Program Requirements.

##### Earn at least 54 credits from the following:

- Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

#### Additional Comments:

#### Program Requirements

##### Type

##### Completion Requirement

##### Required Courses - Honours Degree with a Concentration in Chemistry

##### Earn at least 87 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 201 or 211; and 203 or 213
- 33 units - Chemistry 311, 315, 321, 351, 353, 371, 431, 515; 423 or 425; 433 or 373; 521 or 541
- 3 units - Statistics 327 or Biology 315
- 3 units - Earth 210
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 9 units - Physics 211 or 221; and 223 and 323
- 15 units - Environmental Science 401, 501, 502, 503

##### Required Options - Honours Degree with a Concentration in Chemistry

##### Earn at least 33 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Chemistry
- 3 units - Options from the Field of Chemistry
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 9 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

##### Completion Requirement

##### Additional Comments:

##### Recommended Program Sequence for the Chemistry Concentration

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Chemistry Concentration.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

##### Additional Comments:

## Civil Engineering; Department of Department

The Department of Civil Engineering is part of the Schulich School of Engineering.

For more information concerning program regulations and requirements, refer to the [Schulich School of Engineering](#). For contact information or current events, refer to the [Department of Civil Engineering](#).

## Programs

### Overview

General Program Information

### Contact Information

Engineering Student Centre

Location: Engineering C 205

Student Information: [enginfo@ucalgary.ca](mailto:enginfo@ucalgary.ca) or 403.220.5732

Website: [schulich.ucalgary.ca](http://schulich.ucalgary.ca)

## Introduction

The Schulich School of Engineering at the University of Calgary was established in 1965. The degrees awarded by the Schulich School since its inception have been recognized by the Canadian Engineering Accreditation Board (CEAB). The engineering curriculum consists of a well-balanced mixture of traditional topics in engineering sciences and specialization in subjects relevant to current industrial practice. The academic staff and students of the Schulich School of Engineering come from all parts of the world, giving the Schulich School its uniquely friendly and international atmosphere.

## Enquiries

Enquiries regarding admission, registration, interpretation of regulations, or any matter regarding undergraduate studies in Engineering should be directed to the Engineering Student Centre, Engineering C 205, telephone 403.220.5732. Students and prospective students are invited to view pertinent information available through the engineering website, [schulich.ucalgary.ca/](http://schulich.ucalgary.ca/).

## Admissions

### Program Admissions Information

Prospective students wishing to enter the Bachelor of Science (BSc) in Civil Engineering must meet the criteria listed in section [3.1 Admissions](#) of this Calendar.

## Program Details

### Simple Requisites

#### Schulich School of Engineering Requirements

##### Type

Completion Requirement

School Regulations

**Complete ALL of the following Requirement Sets:**

- Schulich School of Engineering - Registration
- Schulich School of Engineering - Course Work
- Schulich School of Engineering - Academic Performance, Review, and Student Standing
- Schulich School of Engineering - Examinations
- Schulich School of Engineering - Graduation

For other regulations related to the Schulich School of Engineering see [3. Schulich School of Engineering Regulations](#).

##### Additional Comments:

#### Civil Engineering, Regular Program

##### Type

Completion Requirement

First Year Curriculum

**Common to all programs:**

- [First Year Curriculum](#)

Civil Engineering - Specified Required Courses

**Earn at least 60 credits from the following:**

- Engineering 311, 349
- Civil Engineering 300, 317, 400, 402, 413, 423, 451, 461, 471, 473, 481, 570
- Digital Engineering 319, 407
- Mechanical Engineering 341
- Geology 376
- Mathematics 375

Civil Engineering - Required Technical Electives

- 12 units of Group A Civil Engineering Technical Electives
- 6 units from Group A or B Civil Engineering Technical Electives
- 6 units of Group B Civil Engineering Technical Electives

**Earn at least 24 credits from the following:**

- Group A Civil Engineering Technical Electives
- Group B Civil Engineering Technical Electives

Complementary Studies - Specified Courses

Earn at least 12 credits from the following:

- Engineering 209 (Economics 209) - not open to first-year students
- Engineering 213 or Communications Studies 363
- Engineering 481
- Engineering 513

Complementary studies - General Courses

Earn at least 6 credits from the following:

- General Complementary Studies Courses

Additional Comments:

Civil Engineering, Biomedical Engineering Minor

Type

Completion Requirement

Required Courses - Civil Engineering, Biomedical Engineering Minor

In addition to the required courses for Civil Engineering, the following courses must be completed:

Complete ALL of the following Course Sets:

- Biomedical Engineering 301, 309, 401, 415
- 9 units from Biomedical Minor Technical Electives

**The following Civil Engineering Required Courses are NOT required for this program:**

- 3 units of the 6 required units of General Complementary Studies
- 3 units of the 6 required units from Group A or B Civil Engineering Technical Electives
- 6 units of the 6 required units of Group B Civil Engineering Technical Electives

Additional Comments:

Civil Engineering, Digital Engineering Minor

Type

Completion Requirement

Required Courses - Civil Engineering, Digital Engineering Minor

In addition to the required courses for Civil Engineering, the following courses must be completed:

Complete ALL of the following Course Sets:

- Digital Engineering 310, 311, 410, 411, 510, 511
- 3 units of Digital Engineering Technical Electives

**The following Civil Engineering Required Courses are NOT required for this program:**

- Digital Engineering 407
- 3 units of the 6 required units from Group A or B Civil Engineering Technical Electives
- 6 units of the 6 required units from Group B Civil Engineering Technical Electives

Additional Comments:

### Civil Engineering, Energy and Environment Minor

#### Type

Completion Requirement

Required Courses - Civil Engineering, Energy and Environment Minor

In addition to the required courses for Civil Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Energy and Environment, Engineering 355
- Energy Management 301
- Science 529
- Civil Engineering 581

Tech Electives - Civil Engineering, Energy and Environment Minor

**Earn at least 6 credits from the following:**

- Energy and Environment Technical Electives\*

**The following Civil Engineering Required Courses are NOT required for this program:**

- 3 units of the 6 required units of General Complementary Studies
- 3 units of the 12 required units from Group A Civil Engineering Technical Electives
- 3 units the 6 required units from Group A or B Civil Engineering Technical Electives
- 6 units of the 6 required units from Group B Civil Engineering Technical Electives

**Additional Comments:**

### Civil Engineering, Minor in Structural Engineering

#### Type

Completion Requirement

Required Courses - Civil Engineering, Minor in Structural Engineering

In addition to the required courses for Civil Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Civil Engineering 513, 523, 551, 557
- 3 units from Civil Engineering 595 or Civil Engineering 597 when the topic is appropriate and with approval from Department, or a Structural Engineering graduate course

**The following Civil Engineering Required Courses are NOT required for this program:**

- 9 units of the 12 required units from Group A Civil Engineering Technical Electives
- 6 units of the 6 required units from Group B Civil Engineering Technical Electives

**Additional Comments:**

### Civil Engineering, Minor in Transportation Engineering

#### Type

Completion Requirement

Required Courses - Civil Engineering, Minor in Transportation Engineering

In addition to the required courses for Civil Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Civil Engineering 575
- 9 units from Civil Engineering 502, 504, 571, 597\*
- 3 units from Civil Engineering 595\* or a Transportation Engineering graduate course

*\*When the topic is appropriate and with approval from the department.*

**The following Civil Engineering Required Courses are NOT required for this program:**

- 3 units of the 12 required units from Group A Civil Engineering Technical Electives
- 6 units of the 6 required units from Group A or B Civil Engineering Technical Electives
- 6 units of the 6 required units from Group B Civil Engineering Technical Electives

**Additional Comments:**

#### Civil Engineering/BComm Combined Degree Program

Type

Completion Requirement

Required Courses – Civil Engineering/BComm Combined Degree Program

In addition to the required courses for Civil Engineering, students must complete courses for the Bachelor of Commerce. Refer to the [Haskayne School of Business](#) and the [Bachelor of Commerce](#) for more information.

**Complete ALL of the following Course Sets:**

- Economics 201†
- Economics 203†
- Junior English (3 units)†
- Strategy and Global Management 217†

*†The courses listed above are required for the Bachelor of Commerce and are used to substitute for some of the Complementary Studies (listed above) in the Civil Engineering, Regular Program.*

**The following Civil Engineering Required Courses are NOT required for this program:**

- Engineering 209 (Economics 209)
- Engineering 213 or Communication Studies 363
- 6 of the 6 units of General Complementary Studies
- 3 units of the 12 required units from Group A Civil Engineering Technical Electives
- 6 units of the 6 required units from Group B Civil Engineering Technical Electives

**Additional Comments:**

#### Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Schulich School of Engineering - Combined Degrees

- Schulich School of Engineering - Minors
- Minor Programs
- Embedded Certificates
- Engineering Internship Program

Additional Comments:

## Overview

### General Program Information

The following options are available for students entering the Master of Engineering (course-based) program:

- MEng, Master of Engineering
- Master of Engineering with Project Management Specialization

The Schulich School of Engineering also offers a **Master of Engineering (MEng), course-based with Internship** in the Civil Engineering program.

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/civil>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications: <http://www.ucalgary.ca/future-students/graduate/explore-programs/civil-engineering-master-engineering-course-based>.

In addition to the Faculty of Graduate Studies **requirements** for admission, the Department of Civil Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Department normally requires:

**Complete ANY of the following Requirement Sets:**

- MEng, Course-based, Civil Engineering
- MEng, Course-based, Civil, Project Management Specialization

Any variations in required courses will be with the approval of the Graduate Program Director.

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

##### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

#### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

See Program/Course Requirements.

#### Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion time is six years for a Master of Engineering (course-based) program. The Master of Engineering, course-based with Internship is normally a three-year program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

#### Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Avalanche Mechanics
- Biomechanics (see [PHD Biomed](#))
- Bituminous Materials
- Geotechnical Engineering
- Materials Engineering
- Project Management
- Structures and Solid Mechanics
- Transportation Engineering
- Water Resources
- [Energy&Env](#)
- [Environ En](#)

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block E, Room 231

Phone number: 403.220.5821

Email address: <mailto:civgrad@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications: <http://www.ucalgary.ca/future-students/graduate/explore-programs/civil-engineering-master-science-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to

complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

d) Two reference letters are required for thesis-based (MSc) graduate programs. References are not required for course-based (MEng) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) A minimum of 12 units and a maximum of 24 units of coursework.
- b) Research and thesis work as major components of the program.

All Master of Science students must complete the professional development courses [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#). These courses are in addition to the "Program/Course Requirements".

All graduate students who require access to Civil Engineering laboratories are required to complete a Workplace Hazardous Materials Information Systems (WHMIS) course and other required safety training courses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

See Program/Course Requirements.

## Time Limit

Typical completion time is one to two years in a master's program. Maximum completion time is four years for a Master of Science program.

See individual program pages on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs](https://ucalgary.ca/future-students/graduate/explore-programs).

## Other Information

Students enrolled in any of the engineering graduate programs may opt, in addition to their normal required course load, to undertake an international project outside Canada. The duration of the project should be between 4 and 6 months. Upon successful completion (on a credit/fail basis) of Engineering 689, the statement "International Graduate Internship Project" will appear on the parchment. The course is not repeatable for credit.

Graduate students have the opportunity to participate in the [Transformative Talent Internship](#) option.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [academic regulations](#)) and are approved by the Department Head or the Graduate Program Director.

## Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Schulich School of Engineering minimum requirements are as follows:

### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

## General Program Information

### Specializations:

- Avalanche Mechanics
- Biomechanics (see [PHD Biomed](#))
- Bituminous Materials
- Geotechnical Engineering
- Materials Engineering
- Project Management
- Structures and Solid Mechanics
- Transportation Engineering
- Water Resources
- [Energy&Env](#)
- [Environ En](#)

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Department Office (MSc and PhD)

Location: Schulich School of Engineering Block E, Room 231

Phone number: 403.220.5821

Email address: <mailto:civgrad@ucalgary.ca>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/civil-engineering-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- a) MSc degree, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- b) A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- c) Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- d) Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) A minimum of 18 units of graduate coursework beyond the baccalaureate.

- b) A minimum of 6 units and a maximum of 18 units of coursework beyond the master's degree.
- c) A written literature review, a written thesis proposal and a field of study oral examination.
- d) A thesis related to advanced original engineering research.

All Doctoral students must complete the professional development courses **ENGG601 Professional Development I** and **ENGG603 Professional Development II**. These courses are in addition to the "Program/Course Requirements".

All graduate students who require access to Civil Engineering laboratories are required to complete a Workplace Hazardous Materials Information Systems (WHMIS) course and other required safety training courses.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

See Program/Course Requirements.

### Time Limit

Typical completion time is three to four years in a doctoral program. Maximum completion time is six years for a doctoral program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

### Other Information

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

### Supervisory Assignments, Candidacy and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see **Graduate Regulations**) and are approved by the Department Head or the Graduate Program Director.

## Required Examinations

### Doctoral Candidacy Requirements

All Doctoral students are required to pass a written Field of Study examination and an oral thesis proposal examination. Specific details of the examination format and other candidacy requirements can be found at <https://grad.ucalgary.ca/current-students/thesis-based-students/exams/candidacy>.

### Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department of Civil Engineering minimum requirements are as follows:

### Doctoral Final Oral Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

#### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Classics and Religion; Department of Department

The Department of Classics and Religion is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Classics and Religion](#).

## Programs

### Overview

General Program Information

### Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion).

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Classics and Religion offers instruction in Ancient and Medieval History, Greek and Roman Studies, and Religious Studies.

The Ancient and Medieval History program examines pre-modern societies around the globe, from those of the Greeks and Romans of antiquity to the European Middle Ages, from the civilizations of the ancient Near East to those of southern and eastern Asia, Africa, and the Americas. To study Ancient and Medieval History is to discover cultures that, while they are unlike our own in many respects, have nevertheless provided the political, social, religious and intellectual foundations of the modern world.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Ancient and Medieval History Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Ancient and Medieval History

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Ancient and Medieval History while fulfilling the Program Requirements

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Ancient and Medieval History

#### Additional Comments:

### Program Requirement

#### Type

Completion Requirement

#### Major-Field - Specified Courses

Earn at least 30 credits from the following:

- Core Courses: 12 units from Greek and Roman Studies 341, 345, 347; History 320
- Core Courses: 12 units from Religious Studies 303, 313, 319, 323, 327, 329, 357, 359, 383, 385, 387
- Advanced Courses: 6 units from Greek and Roman Studies 415, 417, 419; Religious Studies 451, 453, 461, 469, 484

#### Major-Field - Required Options

Ancient and Medieval History Options

Earn at least 18 credits from the following:

- Courses Constituting the Field of Ancient and Medieval History

Additional Comments:

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete **ANY** of the following Requirement Sets:

- Faculty of Arts - Honours Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

Minors in Greek or Latin may be taken in conjunction with degrees in Ancient and Medieval History.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Classics and Religion offers instruction in Ancient and Medieval History, Greek and Roman Studies, and Religious Studies.

The Ancient and Medieval History program examines pre-modern societies around the globe, from those of the Greeks and Romans of antiquity to the European Middle Ages, from the civilizations of the ancient Near East to those of southern and eastern Asia, Africa, and the Americas. To study Ancient and Medieval History is to discover cultures that, while they are unlike our own in many respects, have nevertheless provided the political, social, religious and intellectual foundations of the modern world.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Ancient and Medieval History Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

### Courses Constituting the Field of Ancient and Medieval History

#### Type

Completion Requirement

Students must successfully complete a minimum of 54 units to a maximum of 72 units in Courses Constituting the Field of Ancient and Medieval History while fulfilling the Program Requirements.

Earn at least 54 credits from the following:

- Courses Constituting the Field of Ancient and Medieval History

Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

Earn at least 39 credits from the following:

- Core Courses: 12 units from Greek and Roman Studies 341, 345, 347; History 320
- Core Courses: 12 units from Religious Studies 303, 313, 319, 323, 327, 329, 357, 359, 383, 385, 387
- Advanced Courses: 6 units from Greek and Roman Studies 415, 417, 419; Religious Studies 451, 453, 461, 469, 484
- Historiography Course: 3 units from Greek and Roman Studies 499
- Honours Thesis: 6 units from Greek and Roman Studies 504, Religious Studies 590

#### Major-Field - Required Options

Ancient and Medieval History Options

Earn at least 15 credits from the following:

- Courses Constituting the Field of Ancient and Medieval History

#### Other Requirements - Language Requirement

To be satisfied by completing one of the following:

Earn at least 12 credits from the following:

- 12 units courses labelled Greek (GREK)
- 12 units courses labelled Latin (LATI)
- 6 units in each of two of the following languages: Classical Chinese (Religious Studies 320, 322), Classical Hebrew (Religious Studies 300, 302), Sanskrit (Religious Studies 310, 312), Tibetan (Religious Studies 314, 316), for a total of 12 units

Additional Comments:

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

#### Overlapping Programs

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction

applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

Minors in Greek or Latin may be taken in conjunction with degrees in Ancient and Medieval History.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Minors in Greek may be taken in conjunction with degrees in Ancient and Medieval History.

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

### Courses Constituting the Field of Greek and Roman Studies

Type

Completion Requirement

Courses Constituting the Field of Greek and Roman Studies

**Enroll in the following Requirement Sets:**

- Courses Constituting the Field of Greek and Roman Studies

Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Minor Program

Students must complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Greek and Roman Studies, with at least 18 units in courses labelled Greek and at least 18 units at the 300 level or above.

#### Earn at least 30 credits from the following:

- Courses Constituting the Field of Greek and Roman Studies

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

Additional Comments:

### Courses Constituting the Field of Greek and Roman Studies

#### Type

Completion Requirement

#### Courses Constituting the Field of Greek and Roman Studies

Students must complete a minimum of 30 units to a maximum of 36 units in Greek and Roman Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Greek and Roman Studies

**Additional Comments:**

### Program Requirements

#### Type

Completion Requirement

#### Specified Courses - Minor Program

**Earn at least 18 credits from the following:**

- 300-Level Courses: 18 units of courses labelled Greek and Roman Studies at the 300 level

#### Required Options - Minor Program

- *Upper-Level Courses:* 6 units from Courses Constituting the Field of Greek and Roman Studies at the 400 or 500 levels.
- *Greek and Roman Studies Options:* 6 units at the 200 level or above from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin). Greek and Roman Studies 205 and 209 are recommended in first year.

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Greek and Roman Studies

Greek and Roman Studies 205 and 209 are recommended in first year.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Greek and Roman Studies program explores the ancient Mediterranean world through its languages (principally ancient Greek and Latin), history, literature, religion, mythology, art and architecture. Students are introduced to methods of textual analysis as well as the careful examination of material remains. Since the traditions of ancient Greece and Rome are foundational

to modern western culture, their study is invaluable not only for their own sake, but also because of their continued relevance today.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Greek and Roman Studies) Program should refer to the Faculty of Arts section [3.1 Admission](#) and meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree Requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Greek and Roman Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Greek and Roman Studies while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Greek and Roman Studies

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 18 credits from the following:

- 300-Level Courses: 18 units of courses labelled Greek and Roman Studies at the 300 level

Major-Field - Required Options

- *Upper-Level Courses*: 12 units from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin) at the 400 or 500 levels.
- *Greek and Roman Studies Options*: 18 units from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin).

Earn at least 30 credits from the following:

- Courses Constituting the Field of Greek and Roman Studies

Other Requirements

Earn at least 6 credits from the following:

- **Language Requirement**: 6 units in a single language other than English, which will normally be Greek or Latin

Courses taken in Greek (GREK) and/or Latin (LATI) also count toward *Upper-Level Courses* and *Greek and Roman Studies Options* requirements as applicable.

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Overlapping Programs

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Greek and Roman Studies program explores the ancient Mediterranean world through its languages (principally ancient Greek and Latin), history, literature, religion, mythology, art and architecture. Students are introduced to methods of textual analysis as well as the careful examination of material remains. Since the traditions of ancient Greece and Rome are foundational to modern western culture, their study is invaluable not only for their own sake, but also because of their continued relevance today.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Greek and Roman Studies) Program should refer to the Faculty of Arts section [3.1 Admission](#) and meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree Requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Greek and Roman Studies

##### Type

##### Completion Requirement

Students must successfully complete a minimum of 69 units to a maximum of 72 units in Courses Constituting the Field of Greek and Roman Studies while fulfilling the Program Requirements

##### Earn at least 69 credits from the following:

- Courses Constituting the Field of Greek and Roman Studies

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 24 credits from the following:**

- 300-Level Courses: 18 units of courses labelled Greek and Roman Studies at the 300 level
- Honours Thesis: 6 units Greek and Roman Studies 504

Major-Field - Required Options

- *Upper-Level Courses*: An additional 15 units at the 400 or above with 3 units at the 500 level from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin).
- *Greek and Roman Studies Options*: 30 units from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin).

**Earn at least 45 credits from the following:**

- Courses Constituting the Field of Greek and Roman Studies

Major-Field - Language Requirement

- Inclusive of courses used to satisfy requirements *Upper-Level Courses* and *Greek and Roman Studies Options*, 18 units in either Greek (GREK) or Latin (LATI) or 12 units in each of these languages.

**Earn at least 18 credits from the following:**

- Courses labelled Greek
- Courses labelled Latin

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Minor Programs
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

**Overlapping Programs**

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

**Additional Comments:**

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-course-based](http://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-course-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- b) All research areas require proficiency in reading Latin and/or Greek.
- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) **GRST603 Res & Professional Training**, first-year course on research and professional training.
- b) 24 units of other seminar courses; these may include up to 6 units outside the department if relevant to the student's particular interests in the field.
- c) 6 units (four courses) of directed studies in Greek and Latin texts ([GREK607 Directed Studies](#) or [LATI607 Directed Studies](#)), normally taken in Fall and Winter Terms of the first and second year (worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.
- d) Reading knowledge of French or German or Italian.

The department may require up to two additional courses (6 units) in order to ensure sufficient preparation in relevant areas for the MA. Students are advised of any such requirements upon entry into the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Contact department for information.

## Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not more than four courses (12 units) in the course-based program, may be taken at the 500 level.

## Time Limit

Students studying on a full-time basis are expected to complete the Master's program in two years. Students in course-based master's programs must complete their degrees within six years.

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- b) All research areas require proficiency in reading Latin and/or Greek.
- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

Type

## Completion Requirement

### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) [GRST603 Res & Professional Training](#), first-year course on research and professional training.
- b) 12 units of other seminar courses, normally taken in the first year of the program; these may include up to 6 units outside the department if appropriate to the area of specialization.
- c) 6 units (four courses) of directed studies in Greek and Latin texts ([GREK607 Directed Studies](#) or [LATI607 Directed Studies](#)), normally taken in Fall and Winter Terms of the first and second year (worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.
- d) Reading knowledge of French or German or Italian into English.
- e) A thesis of approximately 20,000 words, with oral examination.

The department may require up to two additional courses (6 units) in order to ensure sufficient preparation in relevant areas for the MA. Students are advised of any such requirements upon entry into the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Contact department for information.

## Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not more than two of the courses (6 units) required in the thesis-based MA program may be taken at the 500 level.

## Time Limit

Students studying on a full-time basis are expected to complete the Master's program in two years. Students in thesis-based master's programs must complete their degrees within four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director is normally the interim supervisor for a master's student entering the program, and will assist the student to find a supervisor within eight months of entering the program. The appointment of a supervisor is subject to approval by the Department Head.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. The department can offer advice on identifying sources.

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- b) All research areas require proficiency in reading Latin and/or Greek.
- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) For the PhD, an MA is required.
- e) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

## Type

Completion Requirement

### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) **GRST603 Res & Professional Training**, first-year course on research and professional training unless already taken at the Master's level.

b) A minimum of 12 units of other graduate seminar courses; these may include up to 6 units outside the department if appropriate to the area of specialization.

c) 6 units (four courses) of directed studies in Greek and Latin texts (**GREK607 Directed Studies** or **LATI607 Directed Studies**, worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.

d) Reading knowledge of two of the three following modern languages into English, French, German or Italian, which is normally completed by passing examinations set by the department.

e) A twenty-page thesis proposal.

f) A thesis of about 75,000 words, followed by an oral examination.

The department may require up to four additional courses (12 units) in order to ensure sufficient preparation in relevant areas for the PhD. Students are advised of any such requirements upon entry into the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Contact department for information.

## Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

For the PhD program, students are expected to complete their degrees within six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Doctoral students are expected to have a supervisor upon entry. The appointment of a supervisor is subject to approval by the Department Head.

## Candidacy

To be admitted to candidacy, doctoral students must successfully complete a written and oral field of study examinations and an oral examination on the written thesis proposal. See [clare.ucalgary.ca/graduate/phd-candidacy-policies](http://clare.ucalgary.ca/graduate/phd-candidacy-policies) for more information.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. The department can offer advice on identifying sources.

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](http://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](http://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Minors in Latin may be taken in conjunction with degrees in Ancient and Medieval History.

Minors in Latin can only be taken in conjunction with the program in Linguistics and Language if the Language Option for that program differs from the language of the Minor.

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

## Faculty of Arts Requirements

### Type

Completion Requirement

Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

## Courses Constituting the Field of Greek and Roman Studies

### Type

Completion Requirement

Courses Constituting the Field of Greek and Roman Studies

**Enroll in the following Requirement Sets:**

- Courses Constituting the Field of Greek and Roman Studies

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Required Courses - Minor Program

Students must complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Greek and Roman Studies, with at least 18 units in courses labelled Latin (LATI) and at least 18 units at the 300 level or above.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Greek and Roman Studies

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirement

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Religious Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Religious Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Religious Studies

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Minor Requirements

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Religious Studies

Complete a minimum of 30 units to a maximum of 36 units from the Field of Religious Studies with at least 18 units at the 300 level or above, including Religious Studies 377.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Classics and Religion offers instruction in Ancient and Medieval History, Greek and Roman Studies, and

## Religious Studies.

Religious Studies seeks to foster an understanding of the wide variety of religions that have influenced the development of human cultures and that continue to be powerful forces in today's world. Courses examine religious worldviews and their associated texts and practices, movements and institutions, as they appear now and as they have developed over time in many cultures of the world. The Field of Religious Studies is multicultural, i.e., religions from all over the world are the subject of study, including the ancient traditions of Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity, and Islam, as well as religious movements of more recent origin. Religious Studies is also multidisciplinary, which means that religion is studied with the use of methods and theories from various disciplines, including history, anthropology, philosophy, sociology, psychology, literary theory, and feminist theory.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Religious Studies) Program should refer to the Faculty of Arts section [3.1 Admission](#) and meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Religious Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 to a maximum of 60 units in Courses Constituting the Field of Religious Studies while fulfilling the Program Requirements.

##### Earn at least 42 credits from the following:

- Courses Constituting the Field of Religious Studies

#### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 18 credits from the following:**

- 9 units Religious Studies 201, 203, and 205
- 3 units Religious Studies 377
- 3 units Religious Studies 437
- 3 units Religious Studies 447

#### Major-Field - Required Options

Complete 24 units from Courses Constituting the Field of Religious Studies, of which 6 must be at the 400 level or above

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Religious Studies

**Additional Comments:**

## Concentration in Philosophy and Religion

### Type

Completion Requirement

#### Concentration in Philosophy and Religion

Students completing a BA or BA Honours in Philosophy or Religious Studies can elect to complete a concentration in Philosophy and Religion. Students must complete 18 units selected from the following:

**Earn at least 18 credits from the following:**

- Philosophy 201, 331, 335, 527
- Religious Studies 363, 370, 444, 463

Other senior-level Philosophy or Religious Studies courses may be accepted when the topic is appropriate and with approval from the Department of Classics and Religion.

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Religious Studies seeks to foster an understanding of the wide variety of religions that have influenced the development of human cultures and that continue to be powerful forces in today's world. Courses examine religious worldviews and their associated texts and practices, movements and institutions, as they appear now and as they have developed over time in many cultures of the world. The Field of Religious Studies is multicultural, i.e., religions from all over the world are the subject of study, including the ancient traditions of Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity, and Islam, as well as religious movements of more recent origin. Religious Studies is also multidisciplinary, which means that religion is studied with the use of methods and theories from various disciplines, including history, anthropology, philosophy, sociology, psychology, literary theory, and feminist theory.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Religious Studies) Program should refer to the Faculty of Arts section [3.1 Admission](#) and meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

**Courses Constituting the Field of Religious Studies**

**Type**

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Religious Studies while fulfilling the Program Requirements.

**Enroll in the following Requirement Sets:**

- Courses Constituting the Field of Religious Studies

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Major-Field - Specified Courses**

**Earn at least 24 credits from the following:**

- 9 units Religious Studies 201, 203, and 205
- 3 units Religious Studies 377
- 3 units Religious Studies 437
- 3 units Religious Studies 447
- Honours Thesis: 6 units Religious Studies 590

**Major-Field - Required Options**

Complete 36 units in Courses Constituting the Field of Religious Studies, of which 12 units must be at the 400 level or above.

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Religious Studies

**Other Requirements**

**Language Requirement**

Complete 6 units in a single language other than English. Language courses labelled Religious Studies can be counted as part of the 60 units in Religious Studies.

**Additional Comments:**

**Concentration in Philosophy and Religion**

**Type**

Completion Requirement

**Concentration in Philosophy and Religion**

Students completing a BA or BA Honours in Philosophy or Religious Studies can elect to complete a concentration in Philosophy and Religion. Students must complete 18 units selected from the following:

**Earn at least undefined credits from the following:**

- Philosophy 201, 331, 335, 527
- Religious Studies 363, 370, 444, 463

Other senior-level Philosophy or Religious Studies courses may be accepted when the topic is appropriate and with approval from the Department of Classics and Religion.

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

### General Program Information

#### Specializations:

- Eastern Religions
- Nature of Religion
- Western Religions

Feasibility of areas within these specializations depends on available research resources and faculty expertise.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/religious-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/religious-studies-master-arts-thesis-based).

In addition to the Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) An admission grade point average of 3.30 or higher on a four-point scale and a minimum of 36 units in Religious Studies (or their equivalents), usually including at least 6 units from each of the three streams (Eastern, Western, Nature), as determined by the graduate committee.
- b) A reading knowledge of a modern language other than English or of a classical language appropriate to the thesis research. The language requirement normally should be met before admission to the master's program. If this is not the case, the language requirement should be met during the students' course of study in the master's program.

c) Two reference letters.

d) Applicants must include in their application package a sample of written work (e.g. a recent research essay).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, the Department normally requires:

a) Five courses (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission).

**Complete ALL of the following Courses:**

- RELS601 - Studies in Western Religions  
**AND** RELS603 - Studies in Eastern Religions  
**AND** RELS605 - Studies in the Nature of Religion  
**AND** RELS607 - Supervised Master's Thesis Inquiry  
**AND** RELS609 - Selected Topics on Critical Discourses in the Study of Religion

b) A thesis proposal to be presented to the Graduate Studies Committee for evaluation and approval before the second annual registration.

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

Any requests for advanced credit must be made when applying for admission. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Graduate course work completed before admission and not counted toward satisfying undergraduate degree requirements will be assessed by the Departmental Graduate Committee to determine course requirements.

## Flexible Grade Option (CG Grade)

The Religious Studies program in the department Of Classics and Religion will not permit the Flexible Grade Option (CG Grade) for any course offered by the Religious Studies program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit for undergraduate courses will be given only upon approval of the Departmental Graduate Committee.

## Time Limit

Expected completion time for full-time students is two years in the master's program. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Departmental Graduate Committee assigns an advisor (interim supervisor) when an applicant is recommended for admission to the Faculty of Graduate Studies. A regular supervisor must be assigned by the beginning of the second registration year.

## Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or inquire of the Department.

Students applying for scholarships must submit their applications to the Department by February 1.

## Overview

### General Program Information

#### Specializations:

- Eastern Religions
- Nature of Religion
- Western Religions

Feasibility of areas within these specializations depends on available research resources and faculty expertise.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/religious-studies-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/religious-studies-doctor-philosophy-thesis-based)

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A degree comparable to the University of Calgary Religious Studies Master of Arts with a minimum grade point average of 3.50 on a four-point scale.
- b) Two reference letters.
- c) Applicants must include in their application package a sample of written work (e.g. a recent research essay).

Students with an Honours Bachelor of Arts degree in Religious Studies, a grade point average of 3.70 or higher, and evidence of competence in the required languages may be admitted directly into the doctoral program or may be considered for transfer to the doctoral program after the first year of the master's program. Such applicants must include in their application package a detailed statement (10 pages) of the purpose, field, and course of study to be pursued in the program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department normally requires:

- a) For students with a Master of Arts in Religious Studies, five courses are required (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission):

##### Complete ALL of the following Courses:

- RELS701 - Studies in Western Religions  
**AND** RELS703 - Studies in Eastern Religions  
**AND** RELS705 - Studies in the Nature of Religion  
**AND** RELS707 - PhD Departmental Colloquium  
**AND** RELS709 - Advanced Topics on Critical Discourses in the Study of Religion

- b) For students with a BA Honours or for students transferring from the master's program, eight courses are required (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission):

##### Complete ALL of the following Courses:

- RELS601 - Studies in Western Religions  
**AND** RELS603 - Studies in Eastern Religions  
**AND** RELS605 - Studies in the Nature of Religion  
**AND** RELS701 - Studies in Western Religions  
**AND** RELS703 - Studies in Eastern Religions  
**AND** RELS705 - Studies in the Nature of Religion  
**AND** RELS707 - PhD Departmental Colloquium  
**AND** RELS709 - Advanced Topics on Critical Discourses in the Study of Religion

#### Additional Comments:

### PhD Language Requirements

Before the written candidacy examination, doctoral students must demonstrate a reading knowledge of at least two languages other than English. At the discretion of the Department and upon recommendation of the Graduate Director, competency in additional languages may be required. The foreign language requirement may be satisfied in two ways:

a) Successful completion (final grade of "B" or higher) at some stage of the student's university program of at least 12 units in a first language other than English, and 6 units in a second language; or

b) Successful completion (grade of "B" or higher) of a language examination administered by the Department of Classics and Religion or by another department on behalf of the Department of Classics and Religion. When the test is administered by another department, it will consist of a passage or passages selected by the supervisor and/or any requirements that the other department may deem necessary; the test will be graded by the examiner(s) of the other department. When members of the Department of Classics and Religion administer the test, the examination questions will be determined, administered, and graded by two members of the Department (one of whom normally will be the supervisor) who have expertise in the language under consideration. In the event that a second person with expertise in the required language is not available, the Department Head may seek an expert from outside the department.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

Any requests for advanced credit must be made when applying for admission. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Graduate course work completed before admission and not counted toward satisfying undergraduate degree requirements will be assessed by the Departmental Graduate Committee to determine course requirements.

#### **Flexible Grade Option (CG Grade)**

The Religious Studies program in the department Of Classics and Religion will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Religious Studies program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### **Credit for Undergraduate Courses**

Credit for undergraduate courses will be given only upon approval of the Departmental Graduate Committee.

#### **Time Limit**

Expected completion time for full-time students is four years in the PhD program. Maximum completion time is six years in the doctoral program.

#### **Supervisory Assignments and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

The Departmental Graduate Committee assigns an advisor (interim supervisor) when an applicant is recommended for admission to the Faculty of Graduate Studies. A regular supervisor must be assigned by the beginning of the second registration year.

## Required Examinations

### Candidacy

Doctoral students must complete language requirements, a written thesis proposal, and Field of Study examinations: two written and one oral. For complete details of the candidacy requirements, see [clare.ucalgary.ca/graduate/phd-candidacy-policies](http://clare.ucalgary.ca/graduate/phd-candidacy-policies).

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or inquire of the Department.

Students applying for scholarships must submit their applications to the Department by February 1.

## Overview

General Program Information

### Contact Information

Website: [arts.ucalgary.ca/classics-religion](http://arts.ucalgary.ca/classics-religion)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](http://arts.ucalgary.ca/advising).

## Introduction

The South Asian Studies minor is a broadly-based interdisciplinary program offered as a collaborative program in the Faculty of Arts. Courses explore the South Asian classical language of Sanskrit, and classical and contemporary South Asian philosophy, religion, art history, and culture. Taken together, this wide diversity of perspective offers a comprehensive understanding of the rich culture and emerging global influence of India, Pakistan, Afghanistan, Iran, Nepal, Sri Lanka and Bangladesh.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of South Asian Studies

##### Type

Completion Requirement

Courses Constituting the Field of South Asian Studies

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of South Asian Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of South Asian Studies

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Minor Program

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of South Asian Studies

Complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of South Asian Studies including South Asian Studies 203 and 303.

**Additional Comments:**

## Communication, Media & Film; Department of Department Communication, Media and Film (CMF)

The Department offers programs in Communication and Media Studies and Film Studies. The program is housed in the Social Sciences Building on the 2nd and 3rd floors.

### Contact Information:

Location: Social Sciences 1152

Phone Number: 403.220.5300

Fax Number: 403.289.1123

Email: [cmf@ucalgary.ca](mailto:cmf@ucalgary.ca)

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

### Program Advice:

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

### Programs:

BA in Communication and Media Studies

BA Honours in Communication and Media Studies

Bachelor of Communication and Media Studies (BCMS)

Minor in Communication and Media Studies

Co-operative Education (Co-op)

BA in Film Studies

BA Honours in Film Studies

Bachelor of Film Studies (BFS)

Minor in Film Studies

Master of Arts in Communication and Media Studies (MA)

Doctor of Philosophy in Communication and Media Studies (PhD)

## Programs

### Overview

General Program Information

### Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

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## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Communication and Media Studies explores the ways in which communication constructs and reflects society and culture. The program emphasizes the theory, criticism, and history of communication through traditional media, new media and popular culture. It also focuses on the theory, critique and production of informative, persuasive and professional discourse in a range of public, media and organizational contexts (e.g., discourses related to identity, health, technology, food and food marketing and the environment).

The program aims to educate flexible and articulate analysts, researchers and practitioners for a wide range of academic, public

and professional contexts. It provides graduates with the knowledge, skill and discernment to communicate ideas effectively and to investigate communication in and across a variety of media including speech, writing, television, film, radio and digital media. Our co-operative education and experiential learning opportunities enable students to develop and apply their skills in non-academic contexts.

The BCMS is offered in partnership with SAIT Polytechnic and is intended for students who want the broad interdisciplinary base of knowledge provided by a university degree combined with practical skills in public relations, journalism, new media production, or radio, television, and broadcast news provided by a professional diploma program at SAIT or other approved program. A minor program is also offered.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

Note: Students must apply separately to an approved diploma program and meet all its admission requirements and application deadlines.

When a student presents a SAIT or equivalent diploma for block transfer credit to the Bachelor of Communication and Media Studies degree, the grade point average for admission to the Communication and Media Studies program will be calculated using the most recently completed 30 units taken to complete the diploma.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree Requirements, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs

**Exception to junior credit limit:** Students in the BCMS program are permitted an extra 6 units in junior level courses for a maximum of 54 units at the junior or 200 level. Junior courses transferred as part of the diploma (24 units) count towards this maximum.

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 36 credits from the following:

- Core Courses: 24 units Communication and Media Studies 201, 203, 313, 369, 371, 381, 581, Communication

and Culture 305

- 12 units from courses labelled Communication and Media Studies (COMS) or Film 451, of which 3 units must be at the 400 level or above

## Other Requirement

*Applicable Diploma:* Completion of one of the following two-year diploma programs from SAIT Polytechnic, or an approved equivalent, with a grade point average of 2.00 on all courses.

- Journalism (Print/Online Journalism; Photojournalism); New Media Production and Design; Radio, Television and Broadcast News; Film and Video Production; Graphic Communications and Print Technology

## Notes:

- Students who are unsuccessful in applying to the post-secondary institution offering the diploma may transfer to the four-year Bachelor of Arts in Communication and Media Studies at the University of Calgary, or any other University of Calgary program for which they qualify. Courses already completed toward the Bachelor of Communication and Media Studies may be applied toward the Bachelor of Arts in Communication and Media Studies.
- Students completing their diploma in the semester prior to graduation will need to ensure that a transcript recording the diploma conferral is received by the University of Calgary by the transcript deadline date. Due to the processing time required, transcripts received after the deadline will be considered for the next convocation period. Please contact the Arts Students' Centre for further information.

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

The Bachelor of Communication and Media Studies and the Bachelor of Arts in Communication and Media Studies cannot be taken in conjunction with each other.

## Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies. Film Studies situates motion pictures within a wider culture of images and sounds, comprising both contemporary media and diverse historical practices. The program offers students the analytical skills and historical and theoretical frameworks to critically assess contemporary visual culture, and in this way helps to prepare them for careers in film and media criticism; film programming and production; work in cultural institutions; and university research and teaching.

The Department offers a Bachelor of Arts (BA) in Film Studies and a Bachelor of Film Studies (BFS). Students taking a BA in Film Studies will develop a broad understanding of the medium, considering film as an art form, as a cultural industry, and as an innovative and developing technology with social, cultural, and political significance. Opportunities for further concentration are available via the BA (Honours) in Film Studies program. The BFS is offered in partnership with SAIT Polytechnic and is intended for students who want the broad interdisciplinary base of knowledge provided by a university degree combined with practical skills in film, video and new media production.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

**Note:** Students must apply separately to SAIT Polytechnic and meet all its admission requirements and application deadlines.

When a student presents a SAIT or equivalent diploma for block transfer credit to the Bachelor of Film Studies degree, the grade point average for admission to the Film Studies program will be calculated using the most recently completed 30 units taken to complete the diploma.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs

**Exception to junior credit limit:** Students in the BFS program are permitted an extra 6 units in junior level courses for a maximum of 54 units at the junior or 200 level. Junior courses transferred as part of the diploma (24 units) count towards this maximum.

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Film Studies

##### Type

##### Completion Requirement

In addition to 48 units of transfer credits from the diploma, students must fulfill the following requirements, with a

minimum of 36 units and a maximum of 42 units from the Field of Film Studies while fulfilling the Program Requirements.

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Film Studies

**Additional Comments:**

## Program Requirement

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 15 credits from the following:**

- Core Courses: 9 units: Film 201, 321; Communication and Media Studies 581
- Core Courses: 3 units from Film 331 or 333
- Advanced Courses: 3 units from courses labelled Film (FILM) at the 400 level or above

Major-Field - Required Options

- *Film Options:* 21 units from Courses Constituting the Field of Film Studies, with a maximum of 6 units from courses not labelled Film.

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of Film Studies

**Additional Comments:**

- Students who are unsuccessful in applying to SALT may transfer to the four-year Bachelor of Arts in Film Studies at the University of Calgary, or to any other University of Calgary program for which they qualify. Courses already completed toward the Bachelor of Film Studies (BFS) may be applied toward the Bachelor of Arts in Film Studies.
- Students completing their diploma in the semester prior to graduation will need to ensure that a transcript recording the diploma conferral is received by the University of Calgary by the transcript deadline date. Due to the length of processing time required, transcripts received after the deadline will be considered for the next convocation period. Please contact the Arts Students' Centre for further information.

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Co-operative Education Programs

### Overlapping Programs

The Bachelor of Film Studies and the Bachelor of Arts in Film Studies also may not be taken in conjunction with each other.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Communication and Media Studies explores the ways in which communication constructs and reflects society and culture. The program emphasizes the theory, criticism, and history of communication through traditional media, new media and popular culture. It also focuses on the theory, critique and production of informative, persuasive and professional discourse in a range of public, media and organizational contexts (e.g., discourses related to identity, health, technology, food and food marketing and the environment).

The program aims to educate flexible and articulate analysts, researchers and practitioners for a wide range of academic, public and professional contexts. It provides graduates with the knowledge, skill and discernment to communicate ideas effectively and to investigate communication in and across a variety of media including speech, writing, television, film, radio and digital media. Our co-operative education and experiential learning opportunities enable students to develop and apply their skills in non-academic contexts.

The Department offers a Bachelor of Arts (BA) in Communication and Media Studies and a Bachelor of Communication and Media Studies (BCMS). Opportunities for further concentration are available via the BA (Honours) in Communication and Media Studies.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

## Additional Comments:

### Courses Constituting the Field of Communication and Media Studies

#### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Communication and Media Studies while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Communication and Media Studies

## Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 42 credits from the following:

- Core Courses: 24 units Communication and Media Studies 201, 203, 313, 369, 371, 381, 591; Communication and Culture 305
- 18 units from courses labelled Communication and Media Studies or Film 451

#### Major-Field - Required Options

#### Earn at least 6 credits from the following:

- Courses Constituting the Field of Communication and Media Studies

## Additional Comments:

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

The Bachelor of Communication and Media Studies and the Bachelor of Arts in Communication and Media Studies cannot be taken in conjunction with each other.

## Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

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## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Communication and Media Studies explores the ways in which communication constructs and reflects society and culture. The program emphasizes the theory, criticism, and history of communication through traditional media, new media and popular culture. It also focuses on the theory, critique and production of informative, persuasive and professional discourse in a range of public, media and organizational contexts (e.g., discourses related to identity, health, technology, food and food marketing and the environment).

The program aims to educate flexible and articulate analysts, researchers and practitioners for a wide range of academic, public and professional contexts. It provides graduates with the knowledge, skill and discernment to communicate ideas effectively and to investigate communication in and across a variety of media including speech, writing, television, film, radio and digital media. Our co-operative education and experiential learning opportunities enable students to develop and apply their skills in non-academic contexts.

The Department offers a Bachelor of Arts (BA) in Communication and Media Studies and a Bachelor of Communication and Media Studies (BCMS). Opportunities for further concentration are available via the BA (Honours) in Communication and Media Studies.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section, [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1. Students taking Majors offered by the Department are eligible to apply for the Honours Program only if they will have completed at least 90 units prior to admission in the Fall Term.

Honours program applications to the department must include a preliminary Honours thesis proposal and the signature of a faculty member who has agreed to serve as the student's Honours thesis supervisor. Students are strongly advised to secure a supervisor by January 20. The Honours program application form is available at [arts.ucalgary.ca/communication-media-film/future-students/undergraduate/programs/honours-program](https://arts.ucalgary.ca/communication-media-film/future-students/undergraduate/programs/honours-program).

Honours students must register in Communication and Media Studies 595 and 597 or Film 595 and 597. For further information, see the department website or consult with the Honours Program Co-ordinator.

## Program Details

## Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

### Courses Constituting the Field of Communication and Media Studies

#### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Communication and Media Studies while fulfilling the Program Requirements.

#### Earn at least 60 credits from the following:

- Courses Constituting the Field of Communication and Media Studies

#### Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 51 credits from the following:

- Core Courses: 24 units Communication and Media Studies 201, 203, 313, 369, 371, 381, 591; Communication and Culture 305
- 21 units from courses labelled Communication and Media Studies (COMS) or Film 451.
- Undergraduate Thesis: 6 units Communication and Media Studies 595 and 597

A grade of "B-" or higher in Communication and Media Studies 595 and 597 is required for graduation with the BA Honours degree.

#### Major-Field - Required Options

#### Earn at least 9 credits from the following:

- Courses Constituting the Field of Communication and Media Studies

#### Additional Comments:

### Degree Options

## Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Overlapping Programs

The Bachelor of Communication and Media Studies and the Bachelor of Arts in Communication and Media Studies cannot be taken in conjunction with each other.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirement

#### Type

Completion Requirement

### Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

Additional Comments:

### Courses Constituting the Field of Communication and Media Studies

#### Type

#### Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Communication and Media Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Communication and Media Studies

#### Additional Comments:

### Program Requirements

#### Type

#### Completion Requirement

#### Specified Courses - Minor Program

**Earn at least 15 credits from the following:**

- Core Courses: 12 units Communication and Media Studies 201, 203, 371, 381
- Core Courses: 3 units Communication and Media Studies 363, 369

#### Required Options - Minor Program

**Earn at least 15 credits from the following:**

- All courses labelled Communication and Media Studies (COMS)
- Including 6 units at the 400 level or above or Film 451.

#### Additional Comments:

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [commfilm.ucalgary.ca/graduate](http://commfilm.ucalgary.ca/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Graduate program in Communication and Media Studies requires:

- a) A statement of research intent (250-500 words).
- b) Two samples of written work.

- c) A detailed curriculum vitae.
- d) A completed baccalaureate degree in Communications Studies, Culture Studies or related field.
- e) Two completed Reference Forms.

There is no assurance of consideration for funding for part-time students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies requirements and Faculty of Arts requirements, the Graduate Program in Communication and Media Studies requires the following:

a) Nine units:

**Complete ALL of the following Courses:**

- COMS601 - Interdisciplinary Approaches To Communications Studies  
**AND** COMS613 - Communication Theory  
**AND** COMS615 - Research Methods

b) Nine units of electives.

Three units of the electives may be selected from other graduate programs; 3 units of the electives may be COMS711 Directed Studies, Directed Studies.

Note: Master's students must take 9 units in each of fall and winter terms in the first year of their program to be considered full-time.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced Credit may be granted to students admitted to the MA program. Approval of the Graduate Program Director is required.

### Flexible Grade Option (CG Grade)

The program of Communication and Media studies in the department of Communication, Media and Film will not permit the Flexible Grade Option (CG Grade) for any course that is applicable to their degree.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit for undergraduate courses toward a master's program will be given only in the case of the course being developed for

graduate-level work.

## Time Limit

Expected completion time is two years of full-time study or three years of part-time study for the Master of Arts degree.  
Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are not required to choose a supervisor before they are admitted. An interim advisor is assigned by the program in the first year. The student must choose a thesis supervisor by the beginning of the second year.

## Research Proposal

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

Thesis supervisor must approve proposal.

## Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal or external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on Awards, see the [Awards and Financial Assistance](#) section of this Calendar and [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Students applying for the Graduate Awards Competition must submit their applications to the Department of Communication, Media and Film Graduate Programs Office by January 15.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [commfilm.ucalgary.ca/graduate](http://commfilm.ucalgary.ca/graduate)

## Admissions

### Program Admissions Information

# UCalgary

## Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Graduate program in Communication and Media Studies requires:

- a) A statement of research intent (500-1000 words).
- b) Two samples of written work.
- c) A detailed curriculum vitae.
- d) Completed baccalaureate and master's degrees in Communications Studies, Culture Studies, or equivalent.
- e) Two completed Reference Forms.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Graduate Program in Communication and Media Studies requires the following:

a) Nine units:

**Complete ALL of the following Courses:**

- COMS601 - Interdisciplinary Approaches To Communications Studies  
**AND** COMS615 - Research Methods  
**AND** COMS713 - PhD Theory Seminar

b) Nine units electives.

Three units of the electives may be selected from other graduate programs; 3 units of the electives may be [COMS711 Directed Studies](#), Directed Studies.

Note: PhD students who can show that they have taken [COMS601 Interdisc App To Coms Studies](#) or equivalent may substitute an elective.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) may be granted to students admitted to the PhD program. Approval of the Graduate Program Director is required.

### Flexible Grade Option (CG Grade)

The program of Communication and Media studies in the department of Communication, Media and Film will not permit

the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Students in the doctoral program will not be given credit for undergraduate courses.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students are not required to choose a supervisor before they are admitted. An interim advisor is assigned by the program in the first year. The student must choose a thesis supervisor by the beginning of the second year.

By June of the first year in program, the student must submit their proposed field of research and the name of a proposed supervisor for approval by the program. The supervisory committee must be appointed no later than three months after the appointment of the supervisor.

### Research Proposal

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

Students must submit a written thesis proposal, which is approved by their Supervisory Committee.

See [commfilm.ucalgary.ca/candidacy-requirements](http://commfilm.ucalgary.ca/candidacy-requirements) for further information.

### Required Examinations

In addition to the Faculty of Graduate Studies requirements for **Candidacy** and **Thesis Examinations**, the Department requires:

#### Candidacy

Doctoral students must pass oral and written Fields of Study examinations. For complete details of the examination format and other candidacy requirements, see [commfilm.ucalgary.ca/candidacy-requirements](http://commfilm.ucalgary.ca/candidacy-requirements).

#### Thesis Examination

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal or external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on Awards, see the [Awards and Financial Assistance](#) section of this Calendar and [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Students applying for the Graduate Awards Competition must submit their applications to the Department of Communication, Media and Film Graduate Programs Office by January 15.

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](http://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](http://arts.ucalgary.ca/advising).

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirement

For Faculty of Arts Minor graduation requirements, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

#### Additional Comments:

#### Courses Constituting the Field of Film Studies

##### Type

##### Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Film Studies while fulfilling the Program Requirements.

#### Earn at least 30 credits from the following:

- Courses Constituting the Field of Film Studies

#### Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

##### Specified Courses - Minor Program

###### Earn at least 24 credits from the following:

- Core Courses: 6 units Film 201, 321
- Core Courses: 3 units from Film 331 or 333
- An additional 15 units from courses labelled Film (FILM) of which 6 units must be at the 400 or 500 level

##### Required Options - Minor Program

###### Earn at least 6 credits from the following:

- Courses Constituting the Field of Film Studies
- An additional 6 units from Courses Constituting the Field of Film Studies.

#### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Film Studies situates motion pictures within a wider culture of images and sounds, comprising both contemporary media and diverse historical practices. The program offers students the analytical skills and historical and theoretical frameworks to critically assess contemporary visual culture, and in this way helps to prepare them for careers in film and media criticism; film programming and production; work in cultural institutions; and university research and teaching.

The Department offers a Bachelor of Arts (BA) in Film Studies and a Bachelor of Film Studies (BFS). Students taking a BA in Film Studies will develop a broad understanding of the medium, considering film as an art form, as a cultural industry, and as an innovative and developing technology with social, cultural, and political significance. Opportunities for further concentration are available via the BA (Honours) in Film Studies program. The BFS is offered in partnership with SAIT Polytechnic and is intended for students who want the broad interdisciplinary base of knowledge provided by a university degree combined with practical skills in film, video and new media production. A minor program is also offered.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film

must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

#### Courses Constituting the Field of Film Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Film Studies while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Film Studies

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 27 credits from the following:**

- Core Courses: 9 units Film 201, 321, 591
- Core Courses: 3 units from Film 331 or 333
- Advanced Courses: 15 units from courses labelled Film (FILM) at the 400 level or above

#### Major-Field - Required Options

- *Film Options*: 21 units from Courses Constituting the Field of Film Studies, with a maximum of 6 units from courses not labelled Film.

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of Film Studies

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

The Bachelor of Film Studies and the Bachelor of Arts in Film Studies also may not be taken in conjunction with each other.

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Film Studies situates motion pictures within a wider culture of images and sounds, comprising both contemporary media and diverse historical practices. The program offers students the analytical skills and historical and theoretical frameworks to critically assess contemporary visual culture, and in this way helps to prepare them for careers in film and media criticism; film programming and production; work in cultural institutions; and university research and teaching.

The Department offers a Bachelor of Arts (BA) in Film Studies and a Bachelor of Film Studies (BFS). Students taking a BA in Film Studies will develop a broad understanding of the medium, considering film as an art form, as a cultural industry, and as an innovative and developing technology with social, cultural, and political significance. Opportunities for further concentration are available via the BA (Honours) in Film Studies program. The BFS is offered in partnership with SAIT Polytechnic and is intended for students who want the broad interdisciplinary base of knowledge provided by a university degree combined with practical skills in film, video and new media production. A minor program is also offered.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Admission to Honours

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Film Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Film Studies while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Film Studies

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 33 credits from the following:**

- Core Courses: 9 units Film 201, 321, 591
- Core Courses: 3 units from Film 331 or 333

- Advanced Courses: 15 units from courses labelled Film (FILM) at the 400 level or above
- Undergraduate Thesis: 6 units Film 595 and 597

A grade of "B-" or higher in Film 595 and 597 is required for graduation with the BA Honours degree.

#### Major-Field - Required Options

- *Film Options*: 27 units from Courses Constituting the Field of Film Studies, with a maximum of 6 units from courses not labelled Film.

#### Earn at least 27 credits from the following:

- Courses Constituting the Field of Film Studies

#### Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

#### Overlapping Programs

The Bachelor of Film Studies and the Bachelor of Arts in Film Studies also may not be taken in conjunction with each other.

#### Additional Comments:

## Community Rehabilitation & Disability Studies Department

Community Rehabilitation and Disability Studies is a program offered by the Cumming School of Medicine.

For more information concerning program regulations and requirements, refer to [Cumming School of Medicine](#). For contact information or current events, refer to [Community Rehabilitation and Disability Studies](#).

## Programs

### Overview

#### General Program Information

### Contact Information

Location: Cal Wenzel Precision Health (CWPH) 3rd Floor

Student Information: 403.220.2985

Fax Number: 403.220.6494

Website: [cumming.ucalgary.ca/bcr/](http://cumming.ucalgary.ca/bcr/)

## Introduction

# UCalgary

The Bachelor of Community Rehabilitation (BCR) program is available to:

- students coming directly from high school;
- students who have completed a Community College Diploma in Rehabilitation Studies or a related field;
- students transferring from another university or have already completed a degree.

The BCR is an interdisciplinary degree both in the courses it provides and the students it serves.

Students are expected to achieve a foundation in health, leadership, human services, policy, community action, and critical disability studies, and will work with individuals of diverse ages and disabling conditions. Through specialized interdisciplinary study, practical experience and project work, they gain professional skills in individual counselling and personal planning, team co-ordination, design and management of community services, advocacy and small business development.

Students can specialize in areas such as career development, working with seniors, brain injury, community mental health or early intervention. Students specialize by choosing appropriate health and senior social science course options and doing their projects and practica in their chosen area.

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## Student Advising

Inquiries related to Faculty Regulations, BCR Admissions and BCR course requirements should be directed to the Student Advisor for the BCR program: <https://cumming.ucalgary.ca/bcr/contact>.

For the precise interpretation of any statement or regulation, students should contact the Associate Dean (Undergraduate Health and Science Education), Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all BCR student affairs in the School.

## Admissions

### Program Admissions Information

Applicants should refer to [A.5](#) in the Admissions section of this Calendar for regulations regarding University admission requirements.

Admission to the program is competitive and meeting the minimum admission requirement does not guarantee admission.

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### Admission from High School

Students must present five Alberta high school courses (or equivalent) including English Language Arts 30-1 (or equivalent) and Biology 30 (or equivalent).

For more detailed information, see [A.5.1.1 Admission Requirements](#)

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### Transfer Students

Transfer cumulative grade point average is calculated over the most recent course work to a maximum of 30 units (includes University of Calgary courses and/or transferable courses taken at other institutions). All grades within a term will be included except where the number of courses taken within a term exceeds that required to fulfill (to a maximum of) 30 units, in which case the highest grades will be used.

Students with fewer than 12 units of post-secondary courses, will have their admission based on high school standing only.

For more detailed information, see [A.5.3.1 Transfer Admission Requirements](#)

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## Application Deadlines

Refer to the Admissions section of the Calendar: [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#)

## Program Details

## Simple Requisites

### Faculty Regulations

#### Type

Completion Requirement

#### Faculty Regulations

**Complete ALL of the following Requirement Sets:**

- Bachelor of Community Rehabilitation (BCR) - Graduation Requirements

For other regulations related to the BCR, see: [3. Community Rehabilitation and Disability Studies](#).

#### Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Four-Year BCR Specified Courses

**Earn at least 42 credits from the following:**

- 21 units: Community Rehabilitation 205, 207, 209, 321, 435, 441, 569
- 9 units Practica: Community Rehabilitation 487, 594, 595
- 6 units: Community Rehabilitation 471, 473, 475
- 3 units: Community Rehabilitation 510 or 553
- 3 units: Academic Writing 303

#### Four-Year BCR Degree Required Options

**Earn at least 78 credits from the following:**

- 9 units: chosen from Health Options
- 12 units: chosen from Senior Social Science Options
- 3 units: chosen from Management Options
- 54 units Open Options

#### Additional Comments:

### Combined BCR/BA or BSc (Psychology)

#### Type

Completion Requirement

#### Combined BCR/BA or BSc (Psychology)

### Introduction

This five-year program leads to both the Bachelor of Community Rehabilitation (offered by the Cumming School of Medicine) and [PSYCBA/ PSYCBAH](#) or [PSYCBSC/PSYCBSCH](#) (offered by the [Faculty of Arts](#)) degrees, and is jointly sponsored by the two faculties. Completion of the program requires a minimum of 150 units.

### Admission

Students pursuing this program may enter the combined degree in year one or a subsequent year. Admission requirements of both Faculties, the Department of Psychology and Community Rehabilitation Studies, must be satisfied in order to qualify for the combined degree program.

The program requires careful selection of courses to complete all requirements of the two Faculties. Interested students are urged to contact Arts Students' Centre (Student Inquiries) and the Student Advisor in the Community Rehabilitation and

Disability Studies Program. It will be possible for students to opt out of the combined program until the end of their third year and complete either a BA or BSc in Psychology or a BCR degree in four years. Students should note, however, that if courses have been unevenly distributed, more than four years may be required to complete the degree.

## Requirements

Below are the program requirements for the BCR portion of the degree for the program requirements for the Psychology portion of the degree see:

**PSYCBA** or **PSYCBAH**

**PSYCBSC** or **PSYCBSCH**

1. The Faculty of Arts requires the successful completion of both:

(a) the "Faculty of Arts Requirements for Combined Degree" or "Faculty of Arts Requirements for Combined Degrees with an Honours Component" listed in the Faculty of Arts, section **3.3.5 Combined Degrees**, and

(b) the requirements for the **PSYCBA** or **PSYCBSC**. Students should seek Psychology course registration advice from a program advisor in the Arts Students' Centre.

2. Students in the BCR/**PSYCBA** or **PSYCBAH** program must complete Biology 205 and 305. Students in the BCR/**PSYCBSC** or **PSYCBSCH** program must complete Biology 241 and 243.

3. The Cumming School of Medicine requires successful completion of all courses required for graduation with a BCR degree as listed below " Bachelor of Community Rehabilitation Graduation Requirements".

**Complete ANY of the following Requirement Sets:**

- Combined BCR/BA or BSc (Psychology)

**Additional Comments:**

## Degree Options

**Type**

Completion Requirement

Degree Options

To complete ***optional*** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Embedded Certificates
- Minor Programs

**Additional Comments:**

## Overview

### General Program Information

A Minor in Community Rehabilitation and Disability Studies is available to students registered in other Faculties (e.g. Arts, Kinesiology, Science).

Contact the program or program website ([cumming.ucalgary.ca/bcr](http://cumming.ucalgary.ca/bcr)) for information.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

<b>Program Requirements</b>
<b>Type</b>
Completion Requirement
<div>Community Rehabilitation and Disability Studies Required Courses</div> <div><b>Earn at least 30 credits from the following:</b><ul style="list-style-type: none"><li>• Introductory Courses: 6 units Community Rehabilitation 205, 209</li><li>• Practica: 6 units from Community Rehabilitation 207 and 487; or 594 and 595.</li><li>• 18 units from Community Rehabilitation 321, 435, 441, 471, 473, 475, 477, 510, 547, 553, 569, 591, 594, 595</li></ul></div>
<b>Additional Comments:</b>

## Overview

### General Program Information

## Contact Information

Location: Cal Wenzel Precision Health (CWPH) 3rd Floor

Student Information: 403.220.2985

Fax Number: 403.220.6494

Website: [cumming.ucalgary.ca/bcr/](http://cumming.ucalgary.ca/bcr/)

## Introduction

The Bachelor of Community Rehabilitation (BCR) program is available to:

- students coming directly from high school;
- students who have completed a Community College Diploma in Rehabilitation Studies or a related field;
- students transferring from another university or have already completed a degree.

The BCR is an interdisciplinary degree both in the courses it provides and the students it serves.

Students are expected to achieve a foundation in health, leadership, human services, policy, community action, and critical disability studies, and will work with individuals of diverse ages and disabling conditions. Through specialized interdisciplinary study, practical experience and project work, they gain professional skills in individual counselling and personal planning, team

co-ordination, design and management of community services, advocacy and small business development.

Students can specialize in areas such as career development, working with seniors, brain injury, community mental health or early intervention. Students specialize by choosing appropriate health and senior social science course options and doing their projects and practica in their chosen area.

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### Student Advising

Inquiries related to Faculty Regulations, BCR Admissions and BCR course requirements should be directed to the Student Advisor for Community Rehabilitation and Disability Studies.

For the precise interpretation of any statement or regulation, students should contact the Associate Dean (Undergraduate Health and Science Education), Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all BCR student affairs in the School.

### Admissions

#### Program Admissions Information

Applicants should refer to [A.5](#) in the Admissions section of this Calendar for regulations regarding University admission requirements.

Admission to the program is competitive and meeting the minimum admission requirement does not guarantee admission.

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### Post-Diploma Students

Students who have completed an approved Community College Diploma in Rehabilitation Studies or related field may apply for admission with a block transfer of credit to complete two years of study to earn a Bachelor of Community Rehabilitation.

For more detailed information, see [A.5.3.1 Transfer Admission Requirements](#).

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### Application Deadlines

Refer to the Admissions section of the Calendar: [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Program Details

#### Simple Requisites

##### Faculty Regulations

##### Type

Completion Requirement

##### Faculty Regulations

**Complete ALL of the following Requirement Sets:**

- Bachelor of Community Rehabilitation (BCR) - Graduation Requirements

For other regulations related to the BCR, see: [3. Community Rehabilitation and Disability Studies](#).

##### Additional Comments:

##### Program Requirements

##### Type

Completion Requirement

Two-Year Post-Diploma BCR Specified Courses

Earn at least 39 credits from the following:

- 12 units: Community Rehabilitation 321, 435, 441, 569
- 6 units Practica: Community Rehabilitation 594 and 595
- 6 units: Community Rehabilitation 471, 473, 475
- 3 units: Community Rehabilitation 510 or 553
- 3 units: Academic Writing 303

Two-Year Post-Diploma BCR Required Options

Earn at least 21 credits from the following:

- 12 units: chosen from Health Options
- 15 units: chosen from Senior Social Science Options
- 3 units: chosen from Management Options

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Embedded Certificates
- Minor Programs

Additional Comments:

## Computational Media Design Department

The Computational Media Design program is part of the Faculty of Science.

For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to [Computational Media Design](#)

## Programs

### Overview

#### General Program Information

The MSc is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the MSc program as part-time students only with permission from the CMD Advisory Committee.

#### Specializations:

- [Wearable T](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-master-science-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- a) While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- b) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- c) A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- d) Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- e) A curriculum vitae.
- f) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

15 units of coursework:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 3-unit Computer Science graduate-level course;
- 3-unit graduate-level course chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music; and
- Two 3-unit graduate-level courses.

Additional courses may be required on a case-by-case basis as determined by the Supervisor and CMD Director.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

## Time Limit

Expected completion time is two years for the MSc, and maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

## Thesis Examination

In addition to the Faculty of Graduate Studies thesis requirements, the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is

worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

#### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

#### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

### General Program Information

The PhD is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the PhD program as part-time students only with permission from the CMD Advisory Committee.

### Specializations:

- [Wearable T](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- a) While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- b) A master's degree from an accredited/recognized institution.
- c) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- e) Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- f) A curriculum vitae.
- g) Two reference letters.

For exceptional students applying directly to the PhD program with only a bachelor's degree, all the requirements for a Master of Science apply, plus a demonstrated exceptional research and/or creative ability. These direct entry students will be considered on a case-by-case basis.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

Doctoral students must complete at least three graduate-level courses (9 units) while enrolled as a PhD student in Computational Media Design at the University of Calgary.

As agreed upon between the student and supervisory committee, breadth\* courses may be required as follows:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 6 units of Computer Science graduate-level courses;
- 6 units of graduate-level courses chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music.

\*Alternative breadth courses that satisfy the student, the supervisor(s), the supervisory committee, and the CMD Director may be proposed in special cases.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

### Time Limit

Expected completion time for doctoral students entering with a master's degree is four years; maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

Doctoral Supervisory Committee: The Doctoral Supervisory Committee should be constituted by the supervisor and co-supervisor in consultation with the student and must be approved by the CMD Director and sent to the Faculty of Graduate Studies for confirmation. It will consist of the supervisor and co-supervisor, and two additional members. The two additional committee members may be external to the student's program. At least one of the members of the Supervisory Committee should have had supervisory experience at the doctoral level.

### Candidacy

In addition to the Faculty of Graduate Studies candidacy requirements, the program requires:

Doctoral students must complete a written thesis proposal, a written field of study examination, and an oral examination of the thesis proposal. For complete details of the requirements, see the CMD candidacy requirements document available at <https://science.ucalgary.ca/computational-media-design/current-students/degree-requirements>.

## Thesis Examination

In addition to the Faculty of Graduate Studies [thesis requirements](#), the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

The CMD PhD student's External Examiner will be an international expert in the research/creative practice area of the student's research. Faculty of Graduate Studies Conflict of Interest Policy applies (see <https://grad.ucalgary.ca/current-students/thesis-based-students/supervision/conflict-interest>).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Computer Science; Department of Department

The Department of Computer Science is part of the Faculty of Science.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Science](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Computer Science](#).

## Programs

### Overview

General Program Information

Departmental Information

Department Office: Information & Communications Technologies (ICT) 602

Student enquiries: 403.220.8600

Website: [science.ucalgary.ca/computer-science](http://science.ucalgary.ca/computer-science)

## Admissions

### Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

### Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

## Program Details

### Simple Requisites

#### Faculty of Science Minor Program Regulations

##### Type

Completion Requirement

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Computer Science

##### Type

Completion Requirement

Courses Constituting the Field of Computer Science

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Computer Science

**Additional Comments:**

#### Required Courses - Minor Program

##### Type

Completion Requirement

Required Courses - Minor Program

6 units - One of the following three sets of courses:

Earn at least 6 credits from the following:

- Computer Science 217 or Data Science 211 and Computer Science 219
- Computer Science 231 and 233
- Computer Science 235 and 3 units senior Computer Science Option

Required Courses - Minor Program

Earn at least 3 credits from the following:

- 3 units Computer Science 319 or 331

Students with Computer Science 319 will be required to complete a non-credit, on-line course in order to be qualified for senior courses in theoretical computer science. Students may contact the Department of Computer Science in order to register in this course.

Required Options - Minor Program

- 15 units - From the Field of Computer Science at the 300 level or above
- 6 units - From the Field of Computer Science at the 400 level or above

Earn at least 21 credits from the following:

- Courses Constituting the Field of Computer Science

**Additional Comments:**

Many senior courses in Computer Science have prerequisites in other disciplines, especially in Mathematics and Statistics.

## Overview

General Program Information

The BA program in Computer Science is undergoing review. Students interested in this program should seek advice from a program advisor in the Undergraduate Science Centre. Many options for diversifying a BSc in Computer Science are available to students.

Department Office: Information & Communications Technologies (ICT) 602

Student enquiries: 403.220.8600

Website: [science.ucalgary.ca/computer-science](http://science.ucalgary.ca/computer-science)

## Admissions

Program Admissions Information

The BA program in Computer Science is undergoing review. Students interested in this program should seek advice from a program advisor in the Undergraduate Science Centre. Many options for diversifying a BSc in Computer Science are available to students.

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

Simple Requisites

Faculty Requirements

**Type**

Completion Requirement

**Faculty of Science Requirements**

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Department vs. Faculty Regulations**

Programs in the Department of Computer Science are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) and the Department at all stages of their program.

**First Courses in Computer Science**

The Department of Computer Science offers the following courses for students who are interested in an introduction to the discipline of computer science or who wish to use computers more effectively. Each of Computer Science 217, 231 and 235 is intended primarily for a group of students (with differing academic objectives) who are interested in an introduction to computer science that includes an introduction to programming and that is available for credit in computer science programs. The pace at which programming concepts are introduced also differs in each course.

- Computer Science 217 is recommended for students wishing to combine studies in computer science with studies in other disciplines, or who are in programs other than computer science and who are interested in a course that includes an introduction to programming. Material related to computer science will be introduced at a pace that is appropriate for students who are unfamiliar with programming or scripting. Upon completion of Computer Science 217, students who are interested in computer science programs would continue by taking Computer Science 219. The latter course includes additional lectures in order to ensure that students in this course sequence are adequately prepared for senior courses in computer science.
- Computer Science 231 is recommended for computer science majors. Material related to computer science will be introduced at a somewhat faster pace than in Computer Science 217. Upon completion of Computer Science 231, students who are interested in computer science programs would continue by taking Computer Science 233.
- Computer Science 235 is a challenging course intended for exceptional students. This course also includes an introduction to programming and it can be used in place of either Computer Science 217 and 219 or Computer Science 231 and 233 in the requirements for computer science programs. Students completing Computer Science 235 will have additional flexibility when choosing options in computer science and may be able to complete courses that are required for computer science programs more rapidly than would otherwise be possible.
- Computer Science 203 is recommended for students who are not in computer science programs and who are interested in a course that introduces computer system fundamentals and tools, including spreadsheets, and database applications. This course generally does not include an extensive introduction to programming and it is not available for registration for computer science majors or minors.
- Students that have completed Data Science 211 and wish to pursue a Computer Science Degree should take Computer Science 219.

### Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

### Courses Constituting the Field of Computer Science

#### Type

Completion Requirement

#### Courses Constituting the Field of Computer Science

Students must successfully complete a minimum of 51 units, to a maximum of 66 units, in Courses Constituting the Field of Computer Science while fulfilling the Program Requirements.

#### Earn at least 51 credits from the following:

- Courses Constituting the Field of Computer Science

#### Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - BA Major Program

Complete one of the following three sets of courses:

#### Earn at least 6 credits from the following:

- Computer Science 231 and 233
- Computer Science 217 or Data Science 211, and Computer Science 219
- Computer Science 235 and 3 units from the Field of Computer Science at the 300 level or above

#### Required Courses - BA Major Program

#### Earn at least 36 credits from the following:

- 18 units - Computer Science 251, 331(1), 355, 441, 449, and 481
- Software Engineering 300
- 6 units - One of Mathematics 211 or 213; one of Mathematics 249 or 265 or 275
- 6 units - Logic Requirement: One of Philosophy 279 or 377 and 379
- 3 units - Ethics Requirement: Philosophy 314

(1) Students who have completed **Computer Science 319** prior to admission to a program in Computer Science may use this course in lieu of **Computer Science 331** as a program requirement. Students with Computer 319 will be required to complete a non-credit, on-line course in order to be qualified for senior courses in theoretical computer science.

#### Required Options - Major Program

#### Complete ALL of the following Requirement Sets:

- 6 units - From the Field of Computer Science at the 300 level or above
- 12 units - From the Field of Computer Science at the 400 level or above
- 6 units - From the Field of Computer Science at the 500 level or above

- 9 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 30 units - Non-Major Field Requirement: Options that are not in the Field of Computer Science
- 15 units - Options

**Additional Comments:**

## Concentrations

### Type

Completion Requirement

#### Concentrations

Students may focus their program on one of nine areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

**Complete ANY of the following Requirement Sets:**

- A. Concentration in Computer Game Development
- B. Concentration in Software Engineering
- C. Concentration in Theoretical Computer Science
- D. Concentration in Scientific Computation
- E. Concentration in Human-Computer Interactions
- F. Concentration in Computer Graphics
- G. Concentration in Information Security
- H. Concentration in Networks and Distributed Computing
- I. Concentration in Visualization and Analytics

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

**Department Office:** Information & Communications Technologies (ICT) 602

Student enquiries: 403.220.8600

Website: [science.ucalgary.ca/computer-science](https://science.ucalgary.ca/computer-science)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Computer Science are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### First Courses in Computer Science

The Department of Computer Science offers the following courses for students who are interested in an introduction to the discipline of computer science or who wish to use computers more effectively. Each of Computer Science 217, 231 and 235 is intended primarily for a group of students (with differing academic objectives) who are interested in an introduction to computer science that includes an introduction to programming and that is available for credit in computer science programs. The pace at which programming concepts are introduced also differs in each course.

- Computer Science 217 is recommended for students wishing to combine studies in computer science with studies in other disciplines, or who are in programs other than computer science and who are interested in a course that includes an introduction to programming. Material related to computer science will be introduced at a pace that is appropriate for students who are unfamiliar with programming or scripting. Upon completion of Computer Science 217, students who are interested in computer science programs would continue by taking Computer Science 219. The latter course includes additional lectures in order to ensure that students in this course sequence are adequately prepared for senior courses in computer science.
- Computer Science 231 is recommended for computer science majors. Material related to computer science will be introduced at a somewhat faster pace than in Computer Science 217. Upon completion of Computer Science 231, students who are interested in computer science programs would continue by taking Computer Science 233.
- Computer Science 235 is a challenging course intended for exceptional students. This course also includes an introduction to programming and it can be used in place of either Computer Science 217 and 219 or Computer Science 231 and 233 in the requirements for computer science programs. Students completing Computer Science 235 will have additional flexibility when choosing options in computer science and may be able to complete courses that are required for computer science programs more rapidly than would otherwise be possible.
- Computer Science 203 is recommended for students who are not in computer science programs and who are interested in a course that introduces computer system fundamentals and tools, including spreadsheets, and database applications. This course generally does not include an extensive introduction to programming and it is not available for registration for computer science majors or minors.
- Students that have completed Data Science 211 and wish to pursue a Computer Science Degree should take Computer Science 219.

## Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

## Courses Constituting the Field of Computer Science

### Type

Completion Requirement

### Courses Constituting the Field of Computer Science

Students must successfully complete a minimum of 60 units, to a maximum of 66 units, in Courses Constituting the Field of Computer Science while fulfilling the Program Requirements.

### Earn at least 60 credits from the following:

- All courses labelled Computer Science (CPSC) except Computer Science 203, 304, and 399.04
- Mathematics 318, 391, 493
- All courses labelled Software Engineering (SENG)
- Data Science 211 and 311

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Program

**Earn at least 6 credits from the following:**

- Computer Science 231 and 233
- Computer Science 217 or Data Science 211 and Computer Science 219
- Computer Science 235 and 3 units from the Field of Computer Science at the 300 level or above

#### Required Options - Major Program

**Earn at least 42 credits from the following:**

- 21 units - Computer Science 251, 331, 351, 355, 413, 449 and 457
- 3 units - Software Engineering 300
- 6 units - One of Mathematics 211 or 213; one of Mathematics 249 or 265 or 275
- 3 units - Logic Requirement: Philosophy 279 or 377
- 3 units - Ethics Requirement: Philosophy 314

#### Required Options - Major Program

**Earn at least 72 credits from the following:**

- 9 units - From the Field of Computer Science at the 300 level or above
- 12 units - From the Field of Computer Science at the 400 level or above
- 9 units - From the Field of Computer Science at the 500 level or above
- 12 units - Breadth Requirement: Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 30 units - Non-Major Field Requirement: Options that are not in the Field of Computer Science
- 6 units - Options

### Additional Comments:

## Concentrations

### Type

Completion Requirement

#### Concentrations

Students may focus their program on one of nine areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

**Complete ANY of the following Requirement Sets:**

- A. Concentration in Computer Game Development
- B. Concentration in Software Engineering
- C. Concentration in Theoretical Computer Science
- D. Concentration in Scientific Computation
- E. Concentration in Human-Computer Interactions
- F. Concentration in Computer Graphics
- G. Concentration in Information Security
- H. Concentration in Networks and Distributed Computing
- I. Concentration in Visualization and Analytics

## Additional Comments:

### Program Sequence

#### Type

Completion Requirement

#### Additional Comments:

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

#### Additional Comments:

## Overview

### General Program Information

**Department Office:** Information & Communications Technologies (ICT) 602

**Student enquiries:** 403.220.8600

**Website:** [science.ucalgary.ca/computer-science](http://science.ucalgary.ca/computer-science)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see **3.2 Admission**.

## Program Details

### Simple Requisites

## Faculty Requirements

### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

### Additional Comments:

## Department Regulations

### Type

Completion Requirement

### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Computer Science are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## First Courses in Computer Science

The Department of Computer Science offers the following courses for students who are interested in an introduction to the discipline of computer science or who wish to use computers more effectively. Each of Computer Science 217, 231 and 235 is intended primarily for a group of students (with differing academic objectives) who are interested in an introduction to computer science that includes an introduction to programming and that is available for credit in computer science programs. The pace at which programming concepts are introduced also differs in each course.

- Computer Science 217 is recommended for students wishing to combine studies in computer science with studies in other disciplines, or who are in programs other than computer science and who are interested in a course that includes an introduction to programming. Material related to computer science will be introduced at a pace that is appropriate for students who are unfamiliar with programming or scripting. Upon completion of Computer Science 217, students who are interested in computer science programs would continue by taking Computer Science 219. The latter course includes additional lectures in order to ensure that students in this course sequence are adequately prepared for senior courses in computer science.
- Computer Science 231 is recommended for computer science majors. Material related to computer science will be introduced at a somewhat faster pace than in Computer Science 217. Upon completion of Computer Science 231, students who are interested in computer science programs would continue by taking Computer Science 233.
- Computer Science 235 is a challenging course intended for exceptional students. This course also includes an introduction to programming and it can be used in place of either Computer Science 217 and 219 or Computer Science 231 and 233 in the requirements for computer science programs. Students completing Computer Science 235 will have additional flexibility when choosing options in computer science and may be able to complete courses that are required for computer science programs more rapidly than would otherwise be possible.
- Computer Science 203 is recommended for students who are not in computer science programs and who are interested in a course that introduces computer system fundamentals and tools, including spreadsheets, and database applications. This course generally does not include an extensive introduction to programming and it is not available for registration

for computer science majors or minors.

- Students that have completed Data Science 211 and wish to pursue a Computer Science Degree should take Computer Science 219.

### Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

### Courses Constituting the Field of Computer Science

#### Type

Completion Requirement

#### Courses Constituting the Field of Computer Science

Students must successfully complete a minimum of 66 units, to a maximum of 78 units, in Courses Constituting the Field of Computer Science while fulfilling the Program Requirements.

**Earn at least 66 credits from the following:**

- Courses Constituting the Field of Computer Science

**Additional Comments:**

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - Honours Program

**Earn at least 6 credits from the following:**

- Computer Science 231 and 233
- Computer Science 217 or Data Science 211 and Computer Science 219
- Computer Science 235 and 3 units from the Field of Computer Science at the 300 level or above

#### Required Courses - Honours Program

**Earn at least 42 credits from the following:**

- 27 units - Computer Science 251, 331, 351, 355, 413, 449, 457 and 502
- 3 units - Software Engineering 300
- 6 units - One of Mathematics 211 or 213; one of Mathematics 249 or 265 or 275
- 3 units - Logic Requirement: Philosophy 279 or 377
- 3 units - Ethics Requirement: Philosophy 314

#### Required Options - Honours Program

**Earn at least 72 credits from the following:**

- 6 units - From the Field of Computer Science at the 300 level or above
- 9 units - From the Field of Computer Science at the 400 level or above
- 15 units - From the Field of Computer Science at the 500 level or above
- 12 units - Breadth Requirement: Breadth Requirement: Options from faculties other than the Faculty of

Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.

- 18 units - Non-Major Field Options that are not in the Field of Computer Science
- 12 units - Options

**Additional Comments:**

## Concentrations

### Type

Completion Requirement

#### Concentrations

Students may focus their program on one of nine areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

**Complete ANY of the following Requirement Sets:**

- A. Concentration in Computer Game Development
- B. Concentration in Software Engineering
- C. Concentration in Theoretical Computer Science
- D. Concentration in Scientific Computation
- E. Concentration in Human-Computer Interactions
- F. Concentration in Computer Graphics
- G. Concentration in Information Security
- H. Concentration in Networks and Distributed Computing
- I. Concentration in Visualization and Analytics

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

**Additional Comments:**

#### Recommended Program Sequence BSc Honours in Computer Science

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science

- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Additional Comments:

## Overview

### General Program Information

Students may register in the MSc program as part-time students only with permission from the Department.

### Specializations:

- **MSCT Comp**. The specialization is offered jointly through the Department of Computer Science and the Department of Electrical and Software Engineering.
- **Wearable T**
- **Comp Neuro**

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

For Information Security graduate programs, see:

[GCERT Data](#)

[GCERT Netw](#)

[GCERT Soft](#)

[Master of](#)

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/computer-science-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

a) An undergraduate background of either:

A four-year bachelor's degree or equivalent in Computer Science from a recognized institution with a minimum GPA of 3.30 in the last two years (i.e., last 60 units) of the undergraduate program

OR

A four-year bachelor's degree or equivalent from a recognized institution with a minimum GPA of 3.30 in the last two years (i.e., last 60 units) of the undergraduate program.

In addition, candidates must have an undergraduate course at the 3rd or 4th year level in each of the following computer science areas:

- Theory of Computation

## UCalgary

- Software Engineering
- Systems (Operating Systems, Compilers, Distributed Systems, Networking)
- Application (Artificial Intelligence, Graphics, Databases, etc.)

The cumulative GPA for these courses must be at least 3.30.

Post-degree Computer Science courses may be considered in calculating the GPA. Exceptions to the GPA requirements may be considered for students with either:

- Demonstrated research excellence, or
- GRE General scores of at least 600 verbal and 750 quantitative and either 720 analytical (old test format) or 5.5 (new test format).

b) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.

c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

a) Course Requirements: [CPSC699 Research Methodology in Cpsc](#), plus:

b) Twelve units of additional courses. A minimum of 6 units must be graduate-level computer science courses (labelled CPSC or SENG), excluding professional program courses, and a maximum of 3 units can be an undergraduate course that must be numbered at the 500 level.

It is recommended that students who are considering continuing on to a doctoral program or entering certain career paths, select courses that demonstrate some breadth across Computer Science (see [PHD Comput](#) Breadth Requirements for details).

c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Computer Science will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For MSc programs, at most 3 units at the 500 level may be taken as part of the course work requirement. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate. Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

## Time Limit

Expected completion time is two years for thesis-based Master of Science.

### Supervisory Assignments, Research Proposal, and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

## Research Proposal Requirements

At the master's level, research proposal requirements are determined by the supervisor.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for **thesis examinations**, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## Overview

### General Program Information

Students may register in the PhD program as part-time students only with permission from the Department.

### Specializations:

- [Wearable T](#)
- [Comp Neuro](#)

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Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

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For Information Security graduate programs, see:

[GCERT Data](#)

[GCERT Netw](#)

[GCERT Soft](#)

[Master of](#)

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/computer-science-doctor-philosophy-thesis-based>.

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To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- A Master of Science, thesis-based degree from a recognized institution with a minimum GPA of 3.30. For exceptional students applying with a Bachelor of Science degree, a four-year Honours degree or its equivalent from a recognized institution with a minimum GPA of 3.70 and demonstrated research ability.
- All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.
- Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to the Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

a) Course Requirements: Students will be required to have achieved at least a grade of "B-" in a minimum of 24 units beyond the requirements for an undergraduate degree before completion of the PhD degree. A minimum of 9 units of these must be taken while the student is enrolled as a PhD student in Computer Science at the University of Calgary. Of the 24 units, a minimum of 18 units must be graduate-level courses, excluding professional program courses, with the remaining 6 units being either graduate-level courses or advanced (500-level) undergraduate courses. A minimum of 12 units of the required courses must be taken from a degree-granting Computer Science Department. In addition to the above courses, Computer Science 699 or equivalent experience is required and does not count toward the minimum 24 units courses above.

b) Breadth Requirements: The above courses must be taken from multiple research areas. A maximum of six courses (18 units) in one research area are counted toward the minimum 24 units. Courses in the intersection of two or more areas are counted in the area with the most completed course credits. The current research areas are: Artificial Intelligence and Multi-Agent Systems, Bioinformatics and Biological Computations, Computer Graphics, Computer Vision and Image Processing, Database, HCI and Visualization, Networks and Systems, Security, Theory and Foundations, Scientific Computing, Software Engineering, Other areas in Computer Science, External to Computer Science. Credits for courses external to the Department of Computer Science are only given on condition that no Computer Science course which covers similar content is counted toward the required eight courses; such courses will be counted toward the appropriate areas in Computer Science.

c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Computer Science will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For PhD programs, at most 6 units at the 500 level may be taken as part of the course work requirement; at most one of these taken while registered in the current PhD program. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate on the normal Doctor of Philosophy Course Approval Form (available from the Department). Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

### Time Limit

Expected completion time for doctoral students entering with a master's degree is four years, and five years for a student transferring to the doctoral program without a master's degree.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

**Additional Comments:**

## **Supervisory Assignments**

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

Doctoral students select their supervisory committee members in consultation with their permanent supervisors.

## **Research Proposal Requirements**

At the doctoral level, the thesis proposal must be approved by the student's supervisory committee before an oral examination on the proposal is scheduled. For complete details of the requirements, see

[http://www.ucalgary.ca/cpsc/graduate/programs/doctoral\\_phd\\_thesis\\_based/current\\_regulations](http://www.ucalgary.ca/cpsc/graduate/programs/doctoral_phd_thesis_based/current_regulations).

## **Required Examinations**

### **Candidacy**

Doctoral students must complete a written Field of Study examination, a written thesis proposal, and an oral examination on the thesis proposal. For complete details of the candidacy requirements, see

[http://www.ucalgary.ca/cpsc/graduate/programs/doctoral\\_phd\\_thesis\\_based/current\\_regulations](http://www.ucalgary.ca/cpsc/graduate/programs/doctoral_phd_thesis_based/current_regulations).

### **Thesis Examination**

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## **Overview**

### **General Program Information**

This specialization is offered jointly through the Department of Computer Science and the Department of Electrical and Software Engineering.

Students may register in the MSc program as part-time students only with permission from the Department.

Location: Science A Building, Room 229

# UCalgary

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

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For Information Security graduate programs, see:

[GCERT Data](#)

[GCERT Netw](#)

[GCERT Soft](#)

[Master of](#)

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/computer-science-master-science-thesis-based>.

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In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- a) A four-year bachelor's degree or equivalent in Computer Science from a recognized institution with a minimum GPA of 3.00 in the last two years (i.e., last 60 units) of the undergraduate program.
- b) at least three years relevant experience in the software industry following the bachelor's degree.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to the Faculties of Graduate Studies and Science requirements, the Department requires:

a) Course Requirements: [CPSC699 Research Methodology in Cpsc](#), plus:

b) Twelve units of additional courses. A minimum of 9 units of these courses must be taken from the approved SENG list (available from the Department), and a maximum of 3 units can be an undergraduate course that must be numbered at the 500 level.

It is recommended that students who are considering continuing on to a doctoral program or entering certain career paths, select courses outside the approved SENG list that demonstrate some breadth across Computer Science (see [PHD Comput Breadth Requirements](#) for details).

c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Computer Science will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For MSc programs, at most 3 units at the 500 level may be taken as part of the course work requirement. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate. Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

### Time Limit

Expected completion time is two years for thesis-based Master of Science.

#### Supervisory Assignments, Research Proposal, and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

### Research Proposal Requirements

At the master's level, research proposal requirements are determined by the supervisor.

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for thesis examinations, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## Overview

### General Program Information

### Program Information

Student enquiries: Undergraduate Science Centre (USC) – Science B 149

Website: [ucalgary.ca/science/data-science/](http://ucalgary.ca/science/data-science/)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Enrolment Limitations in Program

The number of spaces in the Data Science programs are limited and entry is competitive.

## Application to Concentrations and Registration Limitations

At the time of admission, students must choose to specialize in a concentration area (listed below).

Entry into a given concentration may be subject to enrolment limitations.

Students may apply to change their concentration once per year via the online change of program process. Refer to: [D. Change of Faculty or Program](#) for more information.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

**Program Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Program vs. Faculty Regulations**

Regulations governing Data Science are a combination of general Faculty of Science regulations and the additional program specific regulations listed below. It is essential for students to be familiar with both sets of regulations. It is helpful to read [3. Faculty of Science Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

**Enrolment Limitations in Courses**

In the first instance, enrolment in Data Science courses is available to Data Science Majors and Minors who meet the prerequisite(s). Depending on space availability, other students who meet the prerequisite(s) may register in a course. Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

**Courses Constituting the Field of Data Science for the Major Program**

**Type**

Completion Requirement

Courses Constituting the Field of Data Science for the Major Program

Students must successfully complete 60 units, to a maximum of 66 units, in Courses Constituting the Field of Data Science while fulfilling Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Data Science for the Major Program

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Required Courses - Major Program

**Earn at least 60 credits from the following:**

- 30 units - Data Science 221, 305, 335, 414, 433, 443, 471, 479, 501, and 543
- 3 units - Statistics 207
- 3 units - Mathematics 211
- 12 units - Computer Science 217, 219, 319, and 583
- 12 units - Mathematics 249 or 265; 267; 271 or 273; 311

Required Concentration - Major Program

Select **ONE** concentration from the following, and complete courses from the corresponding field of study:

Actuarial Science, Anthropology, Archeology, Astrophysics, Biological Sciences, Chemistry, Communication and Media Studies, Economics, Gender and Sexuality Studies, Global Development Studies, Geography, Geology, Geophysics, History, History of Philosophy of Science, International Indigenous Studies, Law and Society, Linguistics, Mathematics, Nanoscience,

Physics, Political Science, Sociology, Statistics, or Urban Studies(2).

- 18 units - From **ONE** Concentration area, with a minimum of 6 units at the 400 level or above(1)

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Actuarial Science
- Courses Constituting the Field of Anthropology
- Courses Constituting the Field of Archaeology
- Courses Constituting the Field of Astrophysics
- Courses Constituting the Field of Biological Sciences
- Courses Constituting the Field of Chemistry
- Courses Constituting the Field of Communication and Media Studies
- Courses Constituting the Field of Economics
- Courses Constituting the Field of Gender and Sexuality Studies
- Courses Constituting the Field of Global Development Studies
- Courses Constituting the Field of Geography
- Courses Constituting the Field of Geology
- Courses Constituting the Field of Geophysics
- Courses Constituting the Field of History
- Courses Constituting the Field of History and Philosophy of Science
- Courses Constituting the Field of International Indigenous Studies
- Courses Constituting the Field of Law and Society
- Courses Constituting the Field of Linguistics
- Courses Constituting the Field of Mathematics
- Courses Constituting the Field of Nanoscience
- Courses Constituting the Field of Physics
- Courses Constituting the Field of Political Science
- Courses Constituting the Field of Sociology
- Courses Constituting the Field of Statistics
- Courses Constituting the Field of Urban Studies

(1) If a course in the concentration area is found in the list of courses constituting the Field of Data Science, then it cannot be counted towards the concentration. Any course that is taken as part of the concentration that is offered outside the Faculty of Science and does not appear on Table 1 will result in the following:

- Replace 3 units Breadth Requirement with 3 units Option

(2) It is not possible for students in the Data Science program to choose a minor in their area of concentration or any minor offered by the Department in which the concentration courses are offered. Students may complete a minor outside of their area of concentration.

Required Options - Major Program

**Earn at least 42 credits from the following:**

- 12 units - Options chosen from Courses Constituting the Field of Data Science for the Major Program
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 12 units - Options

**Additional Comments:**

**Program Sequence**

**Type**

Completion Requirement

**Additional Comments:**

## Recommended Program Sequence for the BSc in Data Science

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Data Privacy, **GCERT Netw** or **GCERT Soft** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the **Master of** program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/data-privacy>.

In addition to Faculty of Graduate Studies **admission requirements**, admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.

- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

12 units of coursework consisting of:

**Complete ALL of the following Requirement Sets:**

- Data Privacy GC courses

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

Advanced credit will not normally be given for the Data Privacy Graduate Certificate program.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For this Graduate Certificate program, credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

## Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort. The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

#### Specializations:

- Business Analytics
- Data Science
- Health Data Science and Biostatistics
- Financial and Energy Markets Data Modelling

### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the **GCERT Fund** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Graduate Diploma in Data Science and Analytics program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the **Master of** within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/data-science-analytics-diploma-course-based>

In addition to the Faculty of Graduate Studies [admission requirements](#), all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see [Qualifications](#)). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

##### Completion Requirement

The Diploma requires 24 units of coursework consisting of:

##### Complete ALL of the following Course Sets:

- Data Science and Analytics Core Courses

##### Complete ANY of the following Course Sets:

- DSAN Diploma - Business Analytics Specialization  
OR DSAN Diploma - Data Science Specialization  
OR DSAN Diploma - Health Data Science and Biostatistics Specialization  
OR DSAN Diploma - Financial and Energy Markets Data Modelling Specialization

##### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit will not normally be given for any of the Data Science and Analytics credentials.

### Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the **Flexible Grade Option (CG Grade)**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

The expected completion time for the Graduate Diploma in Data Science and Analytics is 8 months (direct entry, full-time), and 4 months or 8 months (part-time) for students laddering from the Graduate Certificate program, depending on the schedule being offered. The maximum completion time for the Graduate Diploma is three years from the start of the program.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is six years from the start of the first credential in the laddering process.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Diploma program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section.

## Overview

### General Program Information

The Master of Data Science and Analytics is a continuous program with no scheduled break.

### Specializations:

- Business Analytics
- Data Science
- Health Data Science and Biostatistics
- Financial and Energy Markets Data Modelling

### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the **GCERT Fund** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the **GDIP Data** program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the Master of Data Science and Analytics within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/data-science-and-analytics-mdsa-course>.

In addition to the Faculty of Graduate Studies [admission requirements](#), all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see [Qualifications](#)). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

Program/Course Requirements
Type
Completion Requirement
<p>In addition to Faculty of Graduate Studies <a href="#">requirements</a>, the Faculty of Science requires students to complete:</p> <p>The Master of Data Science and Analytics requires 36 units of coursework consisting of:</p> <p><b>Complete ALL of the following Course Sets:</b></p> <ul style="list-style-type: none"> <li>• Data Science and Analytics Core Courses</li> </ul>
<p><b>Complete ANY of the following Course Sets:</b></p> <ul style="list-style-type: none"> <li>• DSAN Diploma - Business Analytics Specialization</li> <li><b>OR</b> DSAN Diploma - Data Science Specialization</li> <li><b>OR</b> DSAN Diploma - Health Data Science and Biostatistics Specialization</li> <li><b>OR</b> DSAN Diploma - Financial and Energy Markets Data Modelling Specialization</li> </ul>
<p><b>Complete ALL of the following Courses:</b></p> <ul style="list-style-type: none"> <li>• DATA691 - Integrated Topics in Data Science and Analytics</li> </ul>
<p><b>Complete at least 1 courses in the following course sets:</b></p> <ul style="list-style-type: none"> <li>• Master of Data Science Internship</li> </ul> <p>Note: Students who acquire a paid internship are to register in Data 693; students who acquire an unpaid internship are to register in Data 695.</p>
Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

Advanced Credit will not normally be given for any of the Data Science and Analytics credentials.

#### Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Time Limits

The expected completion time for the Master of Data Science and Analytics is 12 months.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is six years from the start of the first credential in the laddering process.

#### Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Master's program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section.

## Overview

### General Program Information

#### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the Graduate Certificate in Fundamental Data Science and Analytics may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the GDIP Data program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the Master of within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/data-science-analytics-certificate-course-based>.

In addition to the Faculty of Graduate Studies [admission requirements](#), all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see [Qualifications](#)). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
The Certificate requires 12 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

[Advanced Credit](#) will not normally be given for any of the Data Science and Analytics credentials.

### Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.  
The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

The expected completion time for the Graduate Certificate in Fundamental Data Science and Analytics is four months. The maximum completion time for the Certificate is three years from the start of the program.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all ladderred credentials is six years from the start of the first credential in the laddering process.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Certificate program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The Master of Information Security and Privacy is a continuous program with no scheduled break.

### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the [GCERT Data](#), [GCERT Netw](#) or [GCERT Soft](#) may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Master of Information Security and Privacy program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/information-security-and-privacy-misp-course>.

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)

- Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

Students must complete 30 units:

##### Enroll in the following Course Sets:

- Information Security and Privacy 601
- Minimum of one of: Information Security and Privacy 603, 605, 611
- Minimum of two of: Information Security and Privacy 641, 643, 645
- Minimum of two of: Information Security and Privacy 621, 623, 625, 631
- Information Security and Privacy 691 Internship\*

Elective: Students may choose to complete [ISEC651 Topics in Security and Privacy](#).

\*Normally, students will be required to complete [ISEC691 Info Sec & Privacy Internship](#). However, with the permission of the Program Director, students may complete [ISEC681 Info Sec & Privacy Capstone](#) instead.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced credit](#) will not normally be given for the MISP program.

## Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Master's program.

## Time Limits

Expected completion time for full-time students in the Master of Information Security and Privacy for full-time students is 12 months. The maximum completion time is four years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Network Security, [GCERT Data](#) or [GCERT Soft](#) may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the [Master of](#) program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/network-security-cert>.

## UCalgary

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
12 units of coursework consisting of:

**Complete ALL of the following Requirement Sets:**

- Network Security GC Courses

##### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

[Advanced credit](#) will not normally be given for the Network Security Graduate Certificate.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the **Flexible Grade Option (CG Grade)**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For this Graduate Certificate program, credit will not normally be granted for undergraduate courses.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

### Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort. The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the **Awards and Financial Assistance** section.

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Software Security, **GCERT Data** or **GCERT Netw** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Master of Information Security and Privacy program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/software-security-cert>.

In addition to Faculty of Graduate Studies **admission requirements**, admission to the Information Security and Privacy programs requires:

## UCalgary

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
- Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

Completion Requirement

#### Complete ALL of the following Requirement Sets:

- Software Security GC courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced credit will not normally be given for the Software Security Graduate Certificate.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For the Software Security Graduate Certificate, credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

## Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort. The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Wearable Technology at the master's and doctoral levels for students registered in the following faculties and graduate programs:

- Faculty of Kinesiology
- Biomedical Engineering Graduate Program
- Geomatics Engineering Graduate Program
- Department of Electrical and Software Engineering
- Department of Computer Science
- Department of Psychology
- Computational Media Design Graduate Program

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

Faculty of Kinesiology

Location: KNB 269

Program number: 403.220.7019

Email address: <mailto:kirsten.penrose@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates/our-programs/wearable>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Wearable Technology specialization are available on the Future Students website for the home graduate program.

- [MSCT Kines](#)
- [PHD Kinesi](#)
- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Geoma](#)
- [PHD Geomat](#)
- [Engineerin](#)
- [Engineerin](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Comp](#)
- [PhD Comp M](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Applicants must meet the [admission](#) requirements of the Faculty of Graduate Studies and the home program that offers the Wearable Technology specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

##### MSc (thesis-based)

In addition to meeting the requirements of Faculty of Graduate Studies ([see regulations](#)) and the home program, MSc students in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, supervisor, and supervisory committee.

##### Doctor of Philosophy

In addition to meeting the requirements of Faculty of Graduate Studies and the home program, PhD trainees in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I\\*](#)
4. One (3 unit) elective in Biomechanics, OR Data Science, OR Data Visualization\*\* at the 600 or 700 level.

*\*With the support of the student's home program and Faculty of Graduate Studies, the student may complete Kinesiology 612 either before or after admission to candidacy.*

*\*\*Must be approved by the specialization Director, the student's Supervisor and Supervisory Committee.*

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, Supervisor, and Supervisory Committee.

Students are expected to attend the annual Wearable Technology Workshop held each Fall semester and participate in the Wearable Technology Lecture series.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process.

### Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

### Supervisory Assignments

See requirements of home program.

### Required Examinations

See requirements of home program and the Faculty of Graduate Studies ([Academic Regulations](#)).

### Financial Assistance

See home program.

## Cumming School of Medicine Department

Summary of Degree Programs

Faculty Information

Community Rehabilitation and Disability Studies

Bachelor of Health Sciences Honours

Doctor of Medicine

Postgraduate (Residency Programs)

Administration

Courses of Instruction by Cumming School of Medicine

## Programs

### Overview

General Program Information

# UCalgary

The University offers an interdisciplinary specialization in Biological Anthropology to students registered in an existing graduate program. The student will receive the degree offered by the home program:

- Doctor of Philosophy (PhD)
- Master of Science (MSc), thesis-based
- Master of Arts (MA), thesis-based

Given the limited resources, the specialization may, in any year, admit fewer applicants than those who are qualified to undertake graduate studies.

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Location: Earth Sciences 852

Program number: 403.220.2665

Fax: 403.282.9562

Email address: <mailto:wwilson@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/anthropology-archaeology/future-students/graduate/programs/biological-anthropology>

## Admissions

### Program Admissions Information

The deadlines for the submission of complete applications is January 15 for September admission and funding.

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In addition to Faculty of Graduate Studies **admission** requirements, all applicants must meet the minimum standards of the home program. Admission to the specialization requires:

- A Bachelor of Arts or Bachelor of Science degree (and Master of Arts degree for admission to the PhD program) in Anthropology, Archaeology, Biology, Zoology, Ecology, or Health Sciences with a GPA of at least 3.30 on a four-point scale in the last two years of program or over the last 60 units.
- An example of the applicant's written work: a term paper, research paper, Master of Arts, or honours thesis that the applicant considers representative of their best work. Published work authored by the applicant is also acceptable provided the applicant is the sole or senior author.
- A concise statement setting forth the applicant's academic interests and reasons for wishing to pursue graduate work in the specialization. The area of thesis research should also be specified.
- An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies ([see regulations](#)) and the home program requirements, the Specialization requires:

### Master of Arts / Master of Science

a) Fifteen units, which shall include:

- [ARKY617 Theory & its Appl in Biol Anth](#)
- [ANTH603 Thesis Development](#)

- Any two of the following: [MDSC755 Directed Study](#), [ARKY613 AnalysisOfHumanSkeletalRemain](#), [ANTH635 Primatological Theory](#), [ANTH605 Prof Skills ForAnthropologists](#), or [ANTH613 IssuesMethodology&Primatology](#)

b) One optional course relevant to the proposed research topic.

c) All students are expected to have proficiency in statistics. The supervisor and two other faculty members of the specialization, in concert with the applicant, will determine if additional course work is needed in statistics, depending upon the applicant's background and proposed research area.

d) A season of field work offering appropriate experience for the proposed research (for example, primate field study, archaeological excavation, or field research in human biology), to be approved by the supervisor. However, students specializing in laboratory-based topics (for example, morphological studies or bone chemistry) may substitute an approved program of laboratory work for the field work requirement.

## Doctor of Philosophy

a) Course Requirements:

If students entering the PhD specialization have completed the master's specialization in Biological Anthropology, or if they have completed equivalent courses in another master's program, they will not be required to repeat those courses. Rather, additional courses will be determined at the discretion of the student's supervisory committee. Normally, 18 units, which shall include (unless completed previously):

- [ARKY617 Theory & its Appl in Biol Anth](#)
- [ANTH701 Independent Studies](#)
- Any two of the following: [MDSC755 Directed Study](#), [ARKY613 AnalysisOfHumanSkeletalRemain](#), [ANTH635 Primatological Theory](#), [ANTH605 Prof Skills ForAnthropologists](#), or [ANTH613 IssuesMethodology&Primatology](#)
- Two courses relevant to the proposed research topic

The number of courses required of each student may vary according to their particular needs as determined by the Supervisory Committee. Statistics will be required in the event the student's committee deems it necessary. The courses will be selected based on the student's previous statistics training and the type of data analyses to be conducted in the research.

b) Two seasons of fieldwork offering appropriate experience for the proposed research topic (for example, primate field study, archaeological excavation, or field research in human biology), to be approved by the supervisor. Fieldwork may have been undertaken before entry into the specialization and may be counted toward the fieldwork requirement. Students specializing in laboratory-based topics (for example, morphological studies or bone chemistry) may substitute an approved specialization of laboratory work for the fieldwork requirement.

c) Submission to the supervisory committee of a paper that demonstrates an ability to research and write a paper at a professional level.

d) Proficiency in a second language.

### Additional Program Information

Type

Completion Requirement

Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Credit for Undergraduate Courses

Students may apply for no more than one 500-level course for graduate credit, subject to the approval of the Program Director. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

## Time Limit

Expected completion time for the MA and MSc is two years and maximum completion time is four years.

Expected completion time for the PhD is four years and maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students will be assigned a supervisor upon admission.

## Research Proposal Requirements

Within twenty months of entering the program, the student, with the supervisor's advice, develops a thesis research proposal. This is then transmitted to the student's supervisory committee for agreement and to the Graduate Program Director of the student's home program for approval and placed on file.

## Required Examinations

Final thesis oral examinations are open.

## Oral Candidacy Examinations

Following the completion of all course work, the research paper and the language requirement, doctoral students sit the Candidacy Examination. In the Biological Anthropology Graduate Specialization, the Candidacy Examination consists of two parts in sequence, as follows: (1) a written component and (2) an oral component.

The oral candidacy examination is required by University regulations and must be held no later than twenty-eight months following initial registration as a full-time graduate student in a PhD program. Students entering the doctoral program with a bachelor's degree, or transferring into a doctoral program from a master's program before the master's program is completed, must attempt the candidacy examinations no later than 36 months after initial registration in the Faculty of Graduate Studies.

The Candidacy Examination in the Biological Anthropology Graduate Specialization consists of a written plus an oral examination administered by the Candidacy Examination Committee, composed of the Supervisory Committee plus two additional members, one of whom must be external to the Specialization if the External is not already a member of the Supervisory Committee.

The Candidacy Examination is an examination of the student's knowledge and abilities to reason, utilize the relevant literature, and to solve problems within the three fields or areas which have been set out.

In consultation with the student, the Supervisory Committee will determine three areas of knowledge for which the student will be responsible in their Candidacy Examination. These topics will be communicated (in writing) to the student, with copies to other members of the Supervisory Committee.

These topics will also be communicated to the two other members of the Candidacy Examination Committee, who must be selected no later than eight weeks prior to the oral examination.

Members of the Candidacy Examination Committee will each submit one or two questions, so that there are at least two questions within each of the three areas. The supervisor will select six questions from those submitted, and provide them to the student at least five weeks prior to the Oral Candidacy Examination. The student will select one question from each of the three areas for a total of three questions. The student will have two weeks in which to prepare answers to these questions as a take-home, open-book exam. Each answer should be approximately 6000 words. Copies of the completed examination will be distributed to all members of the Examination Committee. The Committee will assess the written exam on a Pass/Fail basis. The oral examination is conducted in accordance with Faculty of Graduate Studies regulations.

In the oral component of the Candidacy Examination, the written examinations will serve as the basis from which the examination shall proceed, but examiners are not limited to the written component in framing the questions asked, and questioning may range into cognate areas, at the discretion of the Neutral Chair.

Students must pass both the written and oral exams in order to pass the candidacy exam.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the home program by January 2.

## Overview

### General Program Information

## Contact Information

Location: Cal Wenzel Precision Health (CWPH) 3rd Floor

Student Information: 403.220.2985

Fax Number: 403.220.6494

Website: [cumming.ucalgary.ca/bcr/](https://cumming.ucalgary.ca/bcr/)

## Introduction

The Bachelor of Community Rehabilitation (BCR) program is available to:

- students coming directly from high school;
- students who have completed a Community College Diploma in Rehabilitation Studies or a related field;
- students transferring from another university or have already completed a degree.

The BCR is an interdisciplinary degree both in the courses it provides and the students it serves.

Students are expected to achieve a foundation in health, leadership, human services, policy, community action, and critical disability studies, and will work with individuals of diverse ages and disabling conditions. Through specialized interdisciplinary study, practical experience and project work, they gain professional skills in individual counselling and personal planning, team co-ordination, design and management of community services, advocacy and small business development.

Students can specialize in areas such as career development, working with seniors, brain injury, community mental health or early intervention. Students specialize by choosing appropriate health and senior social science course options and doing their projects and practica in their chosen area.

## Student Advising

Inquiries related to Faculty Regulations, BCR Admissions and BCR course requirements should be directed to the Student Advisor for the BCR program: <https://cumming.ucalgary.ca/bcr/contact>.

For the precise interpretation of any statement or regulation, students should contact the Associate Dean (Undergraduate Health and Science Education), Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all BCR student affairs in the School.

## Admissions

### Program Admissions Information

Applicants should refer to [A.5](#) in the Admissions section of this Calendar for regulations regarding University admission requirements.

# UCalgary

Admission to the program is competitive and meeting the minimum admission requirement does not guarantee admission.

## Admission from High School

Students must present five Alberta high school courses (or equivalent) including English Language Arts 30-1 (or equivalent) and Biology 30 (or equivalent).

For more detailed information, see [A.5.1.1 Admission Requirements](#)

## Transfer Students

Transfer cumulative grade point average is calculated over the most recent course work to a maximum of 30 units (includes University of Calgary courses and/or transferable courses taken at other institutions). All grades within a term will be included except where the number of courses taken within a term exceeds that required to fulfill (to a maximum of) 30 units, in which case the highest grades will be used.

Students with fewer than 12 units of post-secondary courses, will have their admission based on high school standing only.

For more detailed information, see [A.5.3.1 Transfer Admission Requirements](#)

## Application Deadlines

Refer to the Admissions section of the Calendar: [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#)

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

Completion Requirement

#### Faculty Regulations

**Complete ALL of the following Requirement Sets:**

- Bachelor of Community Rehabilitation (BCR) - Graduation Requirements

For other regulations related to the BCR, see: [3. Community Rehabilitation and Disability Studies](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Four-Year BCR Specified Courses

**Earn at least 42 credits from the following:**

- 21 units: Community Rehabilitation 205, 207, 209, 321, 435, 441, 569
- 9 units Practica: Community Rehabilitation 487, 594, 595
- 6 units: Community Rehabilitation 471, 473, 475
- 3 units: Community Rehabilitation 510 or 553
- 3 units: Academic Writing 303

#### Four-Year BCR Degree Required Options

**Earn at least 78 credits from the following:**

- 9 units: chosen from Health Options
- 12 units: chosen from Senior Social Science Options
- 3 units: chosen from Management Options
- 54 units Open Options

Additional Comments:

#### Combined BCR/BA or BSc (Psychology)

Type

Completion Requirement

Combined BCR/BA or BSc (Psychology)

### Introduction

This five-year program leads to both the Bachelor of Community Rehabilitation (offered by the Cumming School of Medicine) and [PSYCBA/ PSYCBAH](#) or [PSYCBSC /PSYCBSCH](#) (offered by the [Faculty of Arts](#)) degrees, and is jointly sponsored by the two faculties. Completion of the program requires a minimum of 150 units.

### Admission

Students pursuing this program may enter the combined degree in year one or a subsequent year. Admission requirements of both Faculties, the Department of Psychology and Community Rehabilitation Studies, must be satisfied in order to qualify for the combined degree program.

The program requires careful selection of courses to complete all requirements of the two Faculties. Interested students are urged to contact Arts Students' Centre (Student Inquiries) and the Student Advisor in the Community Rehabilitation and Disability Studies Program. It will be possible for students to opt out of the combined program until the end of their third year and complete either a BA or BSc in Psychology or a BCR degree in four years. Students should note, however, that if courses have been unevenly distributed, more than four years may be required to complete the degree.

### Requirements

Below are the program requirements for the BCR portion of the degree for the program requirements for the Psychology portion of the degree see:

[PSYCBA](#) or [PSYCBAH](#)

[PSYCBSC](#) or [PSYCBSCH](#)

1. The Faculty of Arts requires the successful completion of both:

(a) the "Faculty of Arts Requirements for Combined Degree" or "Faculty of Arts Requirements for Combined Degrees with an Honours Component" listed in the Faculty of Arts, section [3.3.5 Combined Degrees](#), and

(b) the requirements for the [PSYCBA](#) or [PSYCBSC](#). Students should seek Psychology course registration advice from a program advisor in the Arts Students' Centre.

2. Students in the BCR/[PSYCBA](#) or [PSYCBAH](#) program must complete Biology 205 and 305. Students in the BCR/[PSYCBSC](#) or [PSYCBSCH](#) program must complete Biology 241 and 243.

3. The Cumming School of Medicine requires successful completion of all courses required for graduation with a BCR degree as listed below " Bachelor of Community Rehabilitation Graduation Requirements".

**Complete ANY of the following Requirement Sets:**

- Combined BCR/BA or BSc (Psychology)

Additional Comments:

#### Degree Options

Type

Completion Requirement

## Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Embedded Certificates
- Minor Programs

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Location: Health Sciences Centre G503

Student Information: 403.210.9730

Email address: [bhsc@ucalgary.ca](mailto:bhsc@ucalgary.ca)

Website: [cumming.ucalgary.ca/bhsc/](http://cumming.ucalgary.ca/bhsc/)

Co-ordinated by the Cumming School of Medicine and in co-operation with the Faculties of Science and Arts, the Cumming School of Medicine offers an undergraduate degree in Health Sciences, the Bachelor of Health Sciences Honours (BHSc Honours), consisting of three majors (Bioinformatics, Biomedical Sciences and Health and Society). Because of the admissions standard and GPA requirements, it is expected that most students will attain Honours standing.

A Health Sciences Minor is available in **HSOC**.

A **BINF** Minor is also available.

## Faculty Student Affairs

Inquiries related to Faculty Regulations BHSc Admissions and BHSc course requirements should be directed to the Program Co-ordinator for the BHSc Office. Contact information may be found at: [cumming.ucalgary.ca/bhsc/contact-us](http://cumming.ucalgary.ca/bhsc/contact-us).

## Admissions

### Program Admissions Information

There are approximately 100 first-year students granted admissions each year across the various Majors. Admission is based both on the admission requirements listed below and the Supplementary Application score.

Applicants must submit both a completed Bachelor of Health Sciences Supplementary Application and a University of Calgary Application for Admission. Students are directed to the online Supplementary Application after the Application for Admission to the Bachelor of Health Sciences program is submitted.

## Year 1 Admission

Admission to Year 1 is normally limited to those who meet the requirements set out below and have completed no more than 6 units transferable courses from a recognized post-secondary institution. Those with more than 6 units may be required to apply to Year 2.

(a) To be considered for admission applicants must present the admission requirements as outlined in **A.5.1.1 Admission Requirements** and complete the *Online Supplementary Application* by the deadlines indicated in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

(b) Admission is competitive. Therefore, meeting the minimum standards as set out in (a) does not guarantee admission.

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's **Student Centre**.

(e) BHSc applicants will be considered for Early Admission. Incomplete files will not be reviewed. Applicants currently in high school should refer to Early Admission Process for High School Students in **A.5.1.3** in the Admissions section of this Calendar for details. It is to the applicant's advantage to apply for admission and submit the supplementary information as early as possible.

## Year 2 Admission

(a) Meet the deadlines as outlined in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

Summer Term (Spring/Summer Intersession) courses completed in the year of application will not be considered.

(b) Admission is competitive and seats are limited. Students must have completed at least 24 units by the end of the Winter Term in the year of application (12 units completed by the end of the Fall Term) of which a minimum of 12 units must be from the following courses:

Biology 241, 243, Computer Science 231 (or 217), 233 (or 219), Mathematics 265 (249), 267, Chemistry 201, 203

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's **Student Centre**.

(e) BHSc applicants will be reviewed once a completed application (transcripts and supplementary application) has been received. Incomplete files will not be reviewed. It is to the applicant's advantage to apply for admission and submit all necessary transcripts, including the supplementary information, as early as possible.

(f) Transfer students who are admitted must take all required courses except for Medical Science 203 and 205, which will each be replaced with an open option.

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

Completion Requirement

#### Faculty Regulations

Students in the Cumming School of Medicine are governed by the regulations in this section of the Calendar as well as by the general University regulations in the sections titled **Admissions** and **Academic Regulations**. For the precise interpretation of any statement or regulation, students should feel free to contact the Associate Dean (Undergraduate Health and Science Education), the O'Brien Centre for the BHSc Office, Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all undergraduate BHSc student affairs in the School.

#### Enrolment Limitations

Enrolment limits may be in effect for some courses in the Cumming School of Medicine and the Faculties of Science and Arts.

#### Immunization Requirements

All BHSc students are required to meet an immunization standard as outlined on the Student Immunization Form checklist. Documented proof of completion must be provided to the Immunization Co-ordinator or delegate prior to commencement of the program.

Throughout the BHSc program, students are required to ensure that immunizations are current and must provide proof of updates to the Cumming School of Medicine Immunization Co-ordinator. Failure to do so will result in students being removed from course-based research environments, or being placed in an alternate environment until such time as adequate

proof has been provided. In the event of extenuating medical circumstances impacting immunization status, students may be accommodated in non-Alberta Health Services-affiliated environments. Please note that requirements may change during the program as determined by Alberta Health Services guidelines.

**Complete ALL of the following Requirement Sets:**

- Bachelor of Health Sciences - Degree Requirements
- Bachelor of Health Sciences - Course Selection and Registration
- Bachelor of Health Sciences - Assessment
- Bachelor of Health Sciences - Student Standing

For other regulations related to the Bachelor of Health Sciences Honours, see: [4. Bachelor of Health Sciences Honours](#).

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Specified Courses - Major Program

**Complete ALL of the following Course Sets:**

- Biology 241, 243
- Chemistry 201, 203, 351
- Mathematics 265 or 249, 267
- Statistics 321
- Computer Science 217 and 219; or 231 and 233(1); and 319 or 331
- Medical Science 201, 301, 341, 351, 403, and 6 units from 519, 523, 545
- Biochemistry 341 or 393
- Medical Science 203, 205, 308, 408(2), 508(3)
- Software Engineering 300

(1)Students with programming experience may register in Computer Science 235 in place of 231, 233. Students selecting this option must have approval from the Department of Computer Science. If a student does complete Computer Science 235, 3 units may be taken as an open option.

(2)Medical Science 203, 205, 308, 408 are to be taken in sequence through years one to three.

(3)Medical Science 402 and 417/419 cannot be taken in the same year as Medical Science 508.

Required Options - Major Program

**Earn at least 30 credits from the following:**

- 3 units Humanities Options(4): English 200-level, Philosophy 279 or Medical Science 305 or 307
- 15 units Core Option: At least 3 units must be in Biology, Biochemistry, Cellular, Molecular and Microbial Biology or Medical Science, and at least 3 units must be in Computer Science or Data Science (BINF)
- 3 units Open Option (BINF)
- 9 units Senior Option: any course at the 300 level or above (BINF)

(4)Acceptable courses from the Faculty of Arts to satisfy the Humanities Option may be selected from the following departments: Classics and Religion; English; Philosophy; School of Languages, Linguistics, Literatures and Cultures; or Medical Science 307 ([MDSC307 Science, Philosophy & Society](#)) or 309 ([MDSC309 Science and Politics](#)).

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

## Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Embedded Certificates
- Minor Programs

**Additional Comments:**

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Biostatistics at the master's and doctoral levels through the following Faculties and graduate programs:

- Cumming School of Medicine; Community Health Sciences
- Faculty of Science; Mathematics and Statistics

The student will receive the degree offered by the home program:

- [MTSTMSCT](#)
- [MDCHMSCT](#)
- [MTST PhD](#)
- [MDCHPHD](#)

### Department of Mathematics and Statistics:

Location: Math Sciences Building, Room 462

Program number: 403.220.6299

Fax: 403.282.5150

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

### Department of Community Health Sciences:

Location: Health Sciences Centre, Room G345C

Program number: 403.210.7051

Fax: 403.210.8109

Email address: <mailto:chsgrad@ucalgary.ca>

Web page URL: [https://cumming.ucalgary.ca/gse/about/programs/community-health-sciences#quickset-field\\_collection\\_quicktabs\\_1](https://cumming.ucalgary.ca/gse/about/programs/community-health-sciences#quickset-field_collection_quicktabs_1)

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Biostatistics Specialization are those of the home graduate program:

- [MTSTMSCT](#)
- [MDCHMSCT](#)
- [MTST PhD](#)
- [MDCHPHD](#)

In addition to the [admission](#) requirements of the Faculty of Graduate Studies and home program requirements, all applicants must meet the following requirements:

- In the case of the MSc Biostatistics Specialization, a bachelor's degree in statistics, or its equivalent, is usually required.
- In the case of the PhD Biostatistics Specialization, a master's degree in statistics, or its equivalent, is usually required.
- Students must also have a letter from a faculty member in the home program indicating an agreement to supervise the applicant. Students are strongly encouraged to approach potential supervisors in advance of applying for entry into the home program and Biostatistics specialization.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and home program requirements, the Specialization requires:

**MSc and PhD students complete:**

**Complete ALL of the following Courses:**

- MDCH600 - Introduction to Community Health Sciences  
**AND** MDCH640 - Fundamentals of Epidemiology  
**AND** STAT721 - Statistical Inference  
**AND** BIST600 - Research Seminar

PhD students must also complete [STAT641 Statistical Learning](#) or [STAT631 Computational Statistics](#).

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List A Epidemiology and Health

Relevant topics courses and directed study courses (e.g., [MDCH710 Adv Topics in Biostatistics](#)), and courses from other programs, may be approved by the graduate program director in consultation with the supervisor.

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List B Biostatistics/Statistics

Relevant topics courses and directed study courses (e.g. [STAT601 Topics Probability&Statistics](#)), and courses from other programs, may be approved by the graduate program director in consultation with the supervisor.

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List A Epidemiology and Health  
**OR** Biostatistics Interdisciplinary Specialization, List B Biostatistics/Statistics

#### Additional Comments:

In addition, PhD students in the Mathematics and Statistics program must pass two Preliminary Examinations in Statistics based on material for two of the following courses: [STAT701 Theory of Probability I](#), [STAT721 Statistical Inference](#), [STAT631 Computational Statistics](#), [STAT635 Generalized Linear Models](#), [STAT641 Statistical Learning](#).

N.B. PhD required courses (or equivalents) are based on courses taken across graduate studies; i.e., if the student has taken equivalent courses in an MSc program, they are not required to retake these courses.

Students in the Community Health Sciences program must attend all CHS departmental seminars.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant should make requests for advanced credit at the time of application, as part of the admissions process. See [Advanced Credit](#) for further information.

#### Credit for Undergraduate Courses

See requirements of home program.

#### Flexible Grade Option (CG Grade)

See requirements of home program.

#### Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

The maximum completion time allowed for a thesis-based master's program is four years. The maximum completion time allowed for a doctoral program is six years.

#### Supervisory Assignments and Required Examinations

See requirements of home program and the Faculty of Graduate Studies academic regulations.

#### Faculty Members / Research Interests

Faculty members associated with the Biostatistics specialization have wide-ranging research interests. See the [Biostatistics webpage](#) for more information.

Research topics for thesis-based MSc and PhD applicants should be decided in discussion with supervisors.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

See home program.

## Overview

### General Program Information

### Contact Information

Location: Health Sciences Centre G503

Student Information: 403.210.9730

Email address: [bhsc@ucalgary.ca](mailto:bhsc@ucalgary.ca)

Website: [cumming.ucalgary.ca/bhsc/](http://cumming.ucalgary.ca/bhsc/)

## UCalgary

Co-ordinated by the Cumming School of Medicine and in co-operation with the Faculties of Science and Arts, the Cumming School of Medicine offers an undergraduate degree in Health Sciences, the Bachelor of Health Sciences Honours (BHSc Honours), consisting of three majors (Bioinformatics, Biomedical Sciences and Health and Society). Because of the admissions standard and GPA requirements, it is expected that most students will attain Honours standing.

A Health Sciences Minor is available in [HSOC](#).

A [BINF](#) Minor is also available.

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## Faculty Student Affairs

Inquiries related to Faculty Regulations BHSc Admissions and BHSc course requirements should be directed to the Program Co-ordinator for the BHSc Office. Contact information may be found at: [cumming.ucalgary.ca/bhsc/contact-us](http://cumming.ucalgary.ca/bhsc/contact-us).

## Admissions

### Program Admissions Information

There are approximately 100 first-year students granted admissions each year across the various Majors. Admission is based both on the admission requirements listed below and the Supplementary Application score.

Applicants must submit both a completed Bachelor of Health Sciences Supplementary Application and a University of Calgary Application for Admission. Students are directed to the online Supplementary Application after the Application for Admission to the Bachelor of Health Sciences program is submitted.

### Year 1 Admission

Admission to Year 1 is normally limited to those who meet the requirements set out below and have completed no more than 6 units transferable courses from a recognized post-secondary institution. Those with more than 6 units may be required to apply to Year 2.

(a) To be considered for admission applicants must present the admission requirements as outlined in [A.5.1.1 Admission Requirements](#) and complete the *Online Supplementary Application* by the deadlines indicated in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

(b) Admission is competitive. Therefore, meeting the minimum standards as set out in (a) does not guarantee admission.

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's [Student Centre](#).

(e) BHSc applicants will be considered for Early Admission. Incomplete files will not be reviewed. Applicants currently in high school should refer to Early Admission Process for High School Students in [A.5.1.3](#) in the Admissions section of this Calendar for details. It is to the applicant's advantage to apply for admission and submit the supplementary information as early as possible.

### Year 2 Admission

(a) Meet the deadlines as outlined in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

Summer Term (Spring/Summer Intersession) courses completed in the year of application will not be considered.

(b) Admission is competitive and seats are limited. Students must have completed at least 24 units by the end of the Winter Term in the year of application (12 units completed by the end of the Fall Term) of which a minimum of 12 units must be from the following courses:

Biology 241, 243, Chemistry 201, 203, Mathematics 249 (or 265), Physics 211 (or 221), 223

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's [Student Centre](#).

(e) BHSc applicants will be reviewed once a completed application (transcripts and supplementary application) has been received. Incomplete files will not be reviewed. It is to the applicant's advantage to apply for admission and submit all necessary transcripts, including the supplementary information, as early as possible.

(f) Transfer students who are admitted must take all required courses except for Medical Science 203 and 205, which will each be replaced with an open option.

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

##### Completion Requirement

#### Faculty Regulations

Students in the Cumming School of Medicine are governed by the regulations in this section of the Calendar as well as by the general University regulations in the sections titled [Admissions](#) and [Academic Regulations](#). For the precise interpretation of any statement or regulation, students should feel free to contact the Associate Dean (Undergraduate Health and Science Education), the O'Brien Centre for the BHSc Office, Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all undergraduate BHSc student affairs in the School.

### Enrolment Limitations

Enrolment limits may be in effect for some courses in the Cumming School of Medicine and the Faculties of Science and Arts.

### Immunization Requirements

All BHSc students are required to meet an immunization standard as outlined on the Student Immunization Form checklist. Documented proof of completion must be provided to the Immunization Co-ordinator or delegate prior to commencement of the program.

Throughout the BHSc program, students are required to ensure that immunizations are current and must provide proof of updates to the Cumming School of Medicine Immunization Co-ordinator. Failure to do so will result in students being removed from course-based research environments, or being placed in an alternate environment until such time as adequate proof has been provided. In the event of extenuating medical circumstances impacting immunization status, students may be accommodated in non-Alberta Health Services-affiliated environments. Please note that requirements may change during the program as determined by Alberta Health Services guidelines.

#### Complete ALL of the following Requirement Sets:

- Bachelor of Health Sciences - Degree Requirements
- Bachelor of Health Sciences - Course Selection and Registration
- Bachelor of Health Sciences - Assessment
- Bachelor of Health Sciences - Student Standing

For other regulations related to the Bachelor of Health Sciences Honours, see: [4. Bachelor of Health Sciences Honours](#).

#### Additional Comments:

#### Program Requirements

##### Type

##### Completion Requirement

#### Biomedical Sciences Major Requirements

#### Complete ALL of the following Course Sets:

- Biology 241, 243
- Chemistry 201, 203, 351, 353

- Physics 211 or 221, 223
- 3 units English: any 200-level English
- Mathematics 249 or 265
- Biochemistry 341 or 393
- Medical Science 341, 351, 407
- Medical Science 203, 205, 308, 408(1)
- Medical Science 508(2)
- 3 units Humanities Option - from the departments of Classics and Religion; English; Philosophy; School of Languages, Linguistics, Literatures and Cultures; and Medical Science 307, 309
- 9 units Open Options
- 9 units Biomedical Option: any senior-level course offered by the Cumming School of Medicine, Faculty of Science, Anthropology 305, 311, 413, 435, 451, 523, 552, 553, 589 , Archaeology 417 , Geography 482, 485, 585 , Psychology 300, 301, 365, 369, 375\*\*\*
- 15 units Core Option: Medical Science 301, 321, 402(2), 404, 415, 417(2), 419(2), 501, 503, 515, 519, 521, 523, 525, 541, 543, 545, 561, 565, 567, 569 and any Biochemistry course or any Cellular, Molecular and Microbial Biology course
- 12 units Senior Option: any course at the 300 level or above

(1)Medical Science 203, 205, 308, 408 are to be taken in sequence through years one to three.

(2)Medical Science 402 and 417/419 cannot be taken in the same year as Medical Science 508.

(3)Acceptable courses from the Faculty of Arts to satisfy the Humanities Elective may be selected from the following departments:

- Classics and Religion; English; Philosophy; School of Languages, Linguistics, Literatures and Cultures; and Medical Science 307, 309.

(4)Acceptable courses from the Faculty of Arts to satisfy the Biomedical Option are:

- Anthropology 305, 311, 413, 435, 451, 523, 552, 553, 589
- Archaeology 417
- Geography 482, 485, 585
- Psychology 300, 301, 365, 369, 375

Other courses from the Faculty of Arts may be considered on a case-by-case basis with the approval of the Biomedical Sciences Director.

#### Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

##### Degree options

To complete **optional** enhancement(s) to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Embedded Certificates
- Minor Programs

#### Additional Comments:

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Computational Neuroscience in the following faculties and graduate programs:

# UCalgary

- Cumming School of Medicine, Neuroscience
- Department of Computer Science
- Faculty of Arts, Psychology
- Faculty of Science, Physics and Astronomy
- Graduate Program in Biomedical Engineering

The specialization is offered at the MSc (thesis-based) and PhD levels.

Location: ACH B4-514

Faculty Number: 403-955-7389

Fax: 403-955-2772

E-mail address: <mailto:slbray@ucalgary.ca>

Web page URL: <https://hbi.ucalgary.ca/computational-neuroscience/graduate-specialization/about-program>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Computational Neuroscience specialization are those of the home graduate program:

- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Neuro](#)
- [PHD Neuroc](#)
- [MSCT Physi](#)
- [PHD Physic](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Admission into a graduate program that offers the interdisciplinary specialization and the submission and approval of a written request to the specialization director to join the specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the [requirements](#) of the Faculty of Graduate Studies and the home program:

#### **MSc students are required to complete:**

- [MDSC628 Intro Computational Neuroscien\\*](#); plus
- a minimum of 3 units of courses from the Neuroscience Series (see below).

#### **PhD students are required to complete:**

- [MDSC628 Intro Computational Neuroscien\\*](#); plus
- a minimum of 3 additional units of courses from the Computational Series (see below); and
- a minimum of 6 units of courses from the Neuroscience Series (see below).

\*Medical Science 628 (Introduction to Computational Neuroscience) is expected to be completed unless approval is received from the Computational Neuroscience program oversight committee to substitute another Computational Series course.

COMPUTATIONAL SERIES			NEUROSCIENCE SERIES
BMEN515 Bioeng Methods in Sys & Physio	MATH685 Stochastic Processes	PHYS521 Non-linear Dynamics and Chaos	MDSC619.01 Cellular,MolecularNeuroscience
BMEN619 Advanced Topics in BMEN	MDSC605 (Cpsc605)InfoStoreProcBioSys	PHYS581 Computational Physics III	MDSC619.02 Sys Neuroscience & Neuropath
CPSC607 Biological Computation	MDSC689.01 Medical Imaging Techniques	PHYS605 Advanced Data Analysis	MDSC622 Neurobiology of Mental Illness
CPSC635 ImageAnalysis&ComputerVision	MDSC689.02 Adv Magnetic Resonance Imaging	PHYS619 Statistical Physics II	MDSC624 Neuroanatomy
MATH605 Differential Equations III	MDSC689.03 Adv Medical Image Processing	PHYS621 Nonlinear Dyn & Patt Formation	PSYC620 Adv Topics Brain & Cog Science
MATH661.05 Numerical Differential Eqtn's	MDSC689.11 Medical Imaging Applications	PSYC613 Signal/Syst Analy Behave Rsrch	PSYC623 Functional Neuroanatomy
MATH669.01 Wavelet Analysis	MDSC689.99 Medical Imaging Project	PSYC615 Analysis of Variance	PSYC625 Clinical Neuropsychology
MATH669.03 Mathematical Biology	MDSC755 Directed Study	PSYC617 Multivariate Data Analysis	

Note: Other course options may be available with approval from the Program Oversight Committee.

All students are expected to participate in a Computational Neuroscience journal club. Students will also be expected to attend relevant seminars and present their work at a work-in-progress seminar series during their degree.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process. Credit may be granted for appropriate courses to count towards the specialization with approval of the Computational Neuroscience program.

### Credit for Undergraduate Courses

Credit will not be given for undergraduate or 500-level courses.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)).

### Supervisory Assignments and Required Examinations

See requirements of home program:

- [MSCT Biome](#)
- [PHD Biomed](#)

- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Neuro](#)
- [PHD Neuroc](#)
- [MSCT Physi](#)
- [PHD Physic](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

## Contact Information

Location: Cal Wenzel Precision Health (CWPH) 3rd Floor

Student Information: 403.220.2985

Fax Number: 403.220.6494

Website: [cumming.ucalgary.ca/bcr/](http://cumming.ucalgary.ca/bcr/)

## Introduction

The Bachelor of Community Rehabilitation (BCR) program is available to:

- students coming directly from high school;
- students who have completed a Community College Diploma in Rehabilitation Studies or a related field;
- students transferring from another university or have already completed a degree.

The BCR is an interdisciplinary degree both in the courses it provides and the students it serves.

Students are expected to achieve a foundation in health, leadership, human services, policy, community action, and critical disability studies, and will work with individuals of diverse ages and disabling conditions. Through specialized interdisciplinary study, practical experience and project work, they gain professional skills in individual counselling and personal planning, team co-ordination, design and management of community services, advocacy and small business development.

Students can specialize in areas such as career development, working with seniors, brain injury, community mental health or early intervention. Students specialize by choosing appropriate health and senior social science course options and doing their projects and practica in their chosen area.

## Student Advising

Inquiries related to Faculty Regulations, BCR Admissions and BCR course requirements should be directed to the Student Advisor for Community Rehabilitation and Disability Studies.

For the precise interpretation of any statement or regulation, students should contact the Associate Dean (Undergraduate Health and Science Education), Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all BCR student affairs in the School.

## Admissions

### Program Admissions Information

Applicants should refer to [A.5](#) in the Admissions section of this Calendar for regulations regarding University admission requirements.

Admission to the program is competitive and meeting the minimum admission requirement does not guarantee admission.

## Post-Diploma Students

Students who have completed an approved Community College Diploma in Rehabilitation Studies or related field may apply for admission with a block transfer of credit to complete two years of study to earn a Bachelor of Community Rehabilitation.

For more detailed information, see [A.5.3.1 Transfer Admission Requirements](#).

## Application Deadlines

Refer to the Admissions section of the Calendar: [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

##### Completion Requirement

#### Faculty Regulations

##### Complete ALL of the following Requirement Sets:

- Bachelor of Community Rehabilitation (BCR) - Graduation Requirements

For other regulations related to the BCR, see: [3. Community Rehabilitation and Disability Studies](#).

#### Additional Comments:

#### Program Requirements

##### Type

##### Completion Requirement

#### Two-Year Post-Diploma BCR Specified Courses

##### Earn at least 39 credits from the following:

- 12 units: Community Rehabilitation 321, 435, 441, 569
- 6 units Practica: Community Rehabilitation 594 and 595
- 6 units: Community Rehabilitation 471, 473, 475
- 3 units: Community Rehabilitation 510 or 553
- 3 units: Academic Writing 303

#### Two-Year Post-Diploma BCR Required Options

##### Earn at least 21 credits from the following:

- 12 units: chosen from Health Options
- 15 units: chosen from Senior Social Science Options
- 3 units: chosen from Management Options

Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Embedded Certificates
- Minor Programs

Additional Comments:

## Overview

### General Program Information

## Contact Information

Location: Health Sciences Centre G503

Student Information: 403.210.9730

Email address: [bhsc@ucalgary.ca](mailto:bhsc@ucalgary.ca)

Website: [cumming.ucalgary.ca/bhsc/](http://cumming.ucalgary.ca/bhsc/)

Co-ordinated by the Cumming School of Medicine and in co-operation with the Faculties of Science and Arts, the Cumming School of Medicine offers an undergraduate degree in Health Sciences, the Bachelor of Health Sciences Honours (BHSc Honours), consisting of three majors (Bioinformatics, Biomedical Sciences and Health and Society). Because of the admissions standard and GPA requirements, it is expected that most students will attain Honours standing.

A Health Sciences Minor is available in **HSOC**.

A **BINF** Minor is also available.

## Faculty Student Affairs

Inquiries related to Faculty Regulations BHSc Admissions and BHSc course requirements should be directed to the Program Co-ordinator for the BHSc Office. Contact information may be found at: [cumming.ucalgary.ca/bhsc/contact-us](http://cumming.ucalgary.ca/bhsc/contact-us).

## Admissions

### Program Admissions Information

There are approximately 100 first-year students granted admissions each year across the various Majors. Admission is based both on the admission requirements listed below and the Supplementary Application score.

Applicants must submit both a completed Bachelor of Health Sciences Supplementary Application and a University of Calgary Application for Admission. Students are directed to the online Supplementary Application after the Application for Admission to the Bachelor of Health Sciences program is submitted.

## Year 1 Admission

## UCalgary

Admission to Year 1 is normally limited to those who meet the requirements set out below and have completed no more than 6 units transferable courses from a recognized post-secondary institution. Those with more than 6 units may be required to apply to Year 2.

(a) To be considered for admission applicants must present the admission requirements as outlined in [A.5.1.1 Admission Requirements](#) and complete the *Online Supplementary Application* by the deadlines indicated in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

(b) Admission is competitive. Therefore, meeting the minimum standards as set out in (a) does not guarantee admission.

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's [Student Centre](#).

(e) BHSc applicants will be considered for Early Admission. Incomplete files will not be reviewed. Applicants currently in high school should refer to Early Admission Process for High School Students in [A.5.1.3](#) in the Admissions section of this Calendar for details. It is to the applicant's advantage to apply for admission and submit the supplementary information as early as possible.

## Year 2 Admission

(a) Meet the deadlines as outlined in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

Summer Term (Spring/Summer Intersession) courses completed in the year of application will not be considered.

(b) Admission is competitive and seats are limited. Students must have completed at least 24 units by the end of the Winter Term in the year of application (12 units completed by the end of the Fall Term) of which a minimum of 12 units must be from the following courses:

Biology 241, 243, Health and Society 201, any 200-level 3-unit English course, Psychology 200, 201, Sociology 201, Anthropology 203, Geography 254, Economics 201, 203, any 200-level Political Science course, Community Rehabilitation 205, 207

*\*Students considering the Health Economics concentration in the BHSc Honours are strongly encouraged to complete both Economics 201 and 203, as they are prerequisites for most 300-level Economics courses.*

(c) **Applications will only be accepted electronically.** The supplementary application is to be submitted online.

(d) All applicants will be informed of their status through the applicant's [Student Centre](#).

(e) BHSc applicants will be reviewed once a completed application (transcripts and supplementary application) has been received. Incomplete files will not be reviewed. It is to the applicant's advantage to apply for admission and submit all necessary transcripts, including the supplementary information, as early as possible.

(f) Transfer students who are admitted must take all required courses except for Medical Science 203 and 205, which will each be replaced with an open option.

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

Completion Requirement

#### Faculty Regulations

Students in the Cumming School of Medicine are governed by the regulations in this section of the Calendar as well as by the general University regulations in the sections titled [Admissions](#) and [Academic Regulations](#). For the precise interpretation of any statement or regulation, students should feel free to contact the Associate Dean (Undergraduate Health and Science Education), the O'Brien Centre for the BHSc Office, Cumming School of Medicine. The Associate Dean (UHSE) is responsible for all undergraduate BHSc student affairs in the School.

#### Enrolment Limitations

Enrolment limits may be in effect for some courses in the Cumming School of Medicine and the Faculties of Science and Arts.

## Immunization Requirements

All BHSc students are required to meet an immunization standard as outlined on the Student Immunization Form checklist. Documented proof of completion must be provided to the Immunization Co-ordinator or delegate prior to commencement of the program.

Throughout the BHSc program, students are required to ensure that immunizations are current and must provide proof of updates to the Cumming School of Medicine Immunization Co-ordinator. Failure to do so will result in students being removed from course-based research environments, or being placed in an alternate environment until such time as adequate proof has been provided. In the event of extenuating medical circumstances impacting immunization status, students may be accommodated in non-Alberta Health Services-affiliated environments. Please note that requirements may change during the program as determined by Alberta Health Services guidelines.

**Complete ALL of the following Requirement Sets:**

- Bachelor of Health Sciences - Degree Requirements
- Bachelor of Health Sciences - Course Selection and Registration
- Bachelor of Health Sciences - Assessment
- Bachelor of Health Sciences - Student Standing

For other regulations related to the Bachelor of Health Sciences Honours, see: [4. Bachelor of Health Sciences Honours](#).

### Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

#### Health and Society Major Required Courses

Upon completion of Year 1, Health and Society students are required to declare an "Area of Concentration". This must be selected from Anthropology, Community Rehabilitation and Disability Studies, Economics, Psychology, Geography, Sociology, or Political Science. Course selection must correspond to the student's chosen concentration discipline and must be chosen from the "Concentration Courses" listed below.

**Complete ALL of the following Course Sets:**

- Health and Society 201, 301, 311, 401, 403, 591
- Biology 241, 243
- 9 units Major Option: Anthropology 203, Community Rehabilitation 205, 207, Economics 201, 203(1), Geography 254, Psychology 200, 201(2), Sociology 201
- Medical Science 203, 205, 308(3)
- Health and Society 408(4)
- Medical Science 407
- Medical Science 508(5)
- 3 units English: any 200-level English
- 21 units Concentration Courses (see below)
- 3 units Life Sciences Option: any Biology course or Anthropology 201 or Geography 303
- 3 units Humanities Option(6)
- 9 units Health Science Option: any senior-level course offered by the Faculty of Science, the Cumming School of Medicine or courses selected from Anthropology, Archaeology, Economics, Geography, History, International Relations, Linguistics, Indigenous Studies, Political Science, Psychology, Sociology, Urban Studies
- 6 units Senior Option
- 9 units Open Option

- (1) Students considering concentrating in economics should take Economics 201 and 203. It is strongly recommended that these two courses are completed during the first year of study to facilitate enrolment in senior-level Economics course come the student's second year.
- (2) Students considering concentrating in psychology should take Psychology 200 and 201. It is strongly recommended that this course is completed during the first year of study to facilitate enrolment in senior-level Psychology course come the student's second year.
- (3) Medical Science 203, 205, 308 are to be taken in sequence through years one to two.
- (4) Health and Society 408 to be taken in year three.
- (5) Medical Science 508 to be taken in the final year.
- (6) Acceptable courses from the Faculty of Arts to satisfy the Humanities Option may be selected from the following departments: Classics and Religion; English; Philosophy; School of Languages, Linguistics, Literatures and Cultures; Medical Science 309.

#### 21 units Concentration Courses

##### Complete at least 1 of the following requirement sets:

- ANTHROPOLOGY CONCENTRATION
- COMMUNITY REHABILITATION AND DISABILITY STUDIES CONCENTRATION
- ECONOMICS CONCENTRATION
- GEOGRAPHY CONCENTRATION
- POLITICAL SCIENCES CONCENTRATION
- PSYCHOLOGY CONCENTRATION
- SOCIOLOGY CONCENTRATION

\*The above concentration courses are subject to the changes and restrictions of the department offering the course.

#### Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

##### Complete ALL of the following Requirement Sets:

- Embedded Certificates
- Minor Programs

#### Additional Comments:

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Scurfield Hall, Room 302

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate application for admission to the other program. The respective Combined Program Committee will review each application.

Please note that receiving admission to both individual programs does not guarantee admission to the combined program.

For MBA admission requirements, see [Master of](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

Course requirements include:

- a) MBA courses (54 units); and
- b) MBT courses (37 units)

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses
- MBT Required Courses

plus:

- four elective courses (3 units each) in the student's area of interest.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to a combined MBA program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

MBA: six years

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

#### Specialization:

- Bioinformatics

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

Location: Health Sciences Centre, Room G341A

Email address: [bmbgrad@ucalgary.ca](mailto:bmbgrad@ucalgary.ca)

Web page URL: <https://cumming.ucalgary.ca/gse/programs/biochemistry-and-molecular-biology>

## Admissions

### Program Admissions Information

See <http://www.ucalgary.ca/future-students/graduate/explore-programs/biochemistry-molecular-biology-master-science-thesis-based>.

In addition to Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- A minimum 3.30 grade point average is also required in courses relevant to the proposed field of study.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or

- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Master's applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- A current curriculum vitae.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of biochemistry and molecular biology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 6 units, which is met by:

- the satisfactory completion of [MDGE721 BCEM Molec Biol: Sci Data Comm](#) (1 unit) and two additional 1-unit [MDGE courses](#), excluding Medical Graduate Education 755; and
- the satisfactory completion of additional 3 units in graduate-level courses in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.
- Bioinformatics specialization students are required to take the Foundations of Bioinformatics course - [MDGE610 Foundations of Bioinformatics](#). [MDGE612 Foundations Machine Learning](#) - Foundations of Machine Learning is highly recommended.

Exceptions require the approval of the Graduate Program Director.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring an applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

### Supervisory Assignment, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the students and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the appointment of the permanent supervisor.

## Research Proposal Requirements

All MSc students must defend a written research proposal to their supervisory committee. This document must be submitted within 12 months after initial registration in the program.

## Required Examinations

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

#### Specialization:

- Bioinformatics

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

# UCalgary

Location: Health Sciences Centre, Room G341A

Email address: [bmbgrad@ucalgary.ca](mailto:bmbgrad@ucalgary.ca)

Web page URL: <https://cumming.ucalgary.ca/gse/programs/biochemistry-and-molecular-biology>

## Admissions

### Program Admissions Information

See <http://www.ucalgary.ca/future-students/graduate/explore-programs/biochemistry-molecular-biology-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies regulations, the Cumming School of Medicine graduate programs require:

## Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work if applicable.
- A minimum 3.30 grade point average is also required in courses relevant to the proposed field of study.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Doctoral applicants are required to arrange for the submission of three reference letters. References must follow the guidelines posted on the program's website for prospective students.
- A current curriculum vitae.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of biochemistry and molecular biology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 9 units, which is met by:

- the satisfactory completion of [MDGE721 BCEM Molec Biol: Sci Data Comm](#) (1 unit) and two additional 1-unit [MDGE courses](#), excluding Medical Graduate Education 755; and
- the satisfactory completion of additional 6 units in graduate-level courses in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.
- Only one [MDSC755 Directed Study](#) or [MDGE755 Directed Studies](#) course can be taken for credit.
- Bioinformatics specialization students are required to take the Foundations of Bioinformatics course - [MDGE610 Foundations of Bioinformatics](#). [MDGE612 Foundations Machine Learning](#) - Foundations of Machine Learning is highly recommended.

Exceptions require the approval of the Graduate Program Director.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring an applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for

admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

### Supervisory Assignment, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the students and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the appointment of the permanent supervisor.

### Research Proposal Requirements

All PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <https://wcm.ualgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Required Examinations

#### Candidacy

To enter candidacy, students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at:

<https://wcm.ualgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

#### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the MDBC program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

The Master of Biomedical Technology is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence. All students are considered full-time.

The Master of Biomedical Technology Graduate Program and the Haskayne School of Business offer a [Combined M](#). Contact the Graduate Science Education Office for further information.

Location: Health Sciences Centre, Room G341A

For prospective students: <mailto:gseadmissions@ucalgary.ca>

For current students: <mailto:mbtgrad@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/programs/biomedical-technology>

## Admissions

### Program Admissions Information

See the Future Students website at <http://www.ucalgary.ca/future-students/graduate/explore-programs/biomedical-technology-master-biomedical-technology-course-based>.

In addition to the Faculty of Graduate Studies and Cumming School of Medicine requirements, the program requires:

## Qualifications

- Normally, a four-year BSc degree in biological sciences or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- A current curriculum vitae.
- A Vision Statement (no more than one page in length) outlining career goals, and how the MBT program will help to achieve them.

## Suggested Preparatory Courses

Genetics (**BIOL311 Principles of Genetics** or equivalent), Cellular and Molecular Biology (**BIOL331 Introduction to CMMB** or equivalent), Biochemistry or macro molecules (**BCEM393 Introduction to Biochemistry** or equivalent), and senior-level course work in at least two of the following subject areas: microbiology, immunology, pharmacology and/or physiology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

#### Type

#### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements** and Cumming School of Medicine requirements, the program requires:

a) 31 units of courses:

**Enroll in the following Course Sets:**

- Master of Biomedical Technology Courses

b) 6-unit practicum **MDBT670 Practicum in Biomedical Techno** (runs over Spring and Summer)

It is required that MDBT students will successfully complete all Fall and Winter courses prior to beginning their practicum.

**Additional Comments:**

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

In consultation with the Graduate Program Director, **Advanced Credit** may be requested in accordance with Faculty of Graduate Studies regulations. Applicants must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Credit for Undergraduate Courses

Credit will not be given for undergraduate-level courses.

## Time Limit

The program is completed in one year on a full-time basis.

## Supervisory Assignments

The Graduate Program Director will serve as advisor for all newly admitted students. In the MBT program, there is no requirement for students to have a supervisor.

## Overview

General Program Information

Specializations:

- **BioStatist**

## UCalgary

- Community Rehabilitation and Disability Studies
- Epidemiology
- Healthcare Epidemiology
- Clinical Epidemiology
- Health Economics
- Health Services Research
- Medical Education
- Population/Public Health

Within the thesis-based programs, the student must select a specialization from the list above.

Descriptions of each specialization and its requirements are found on the website at:

<http://cumming.ucalgary.ca/gse/programs/community-health-sciences>.

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### Part-time/Full-time Study

There is a part-time option for students in the thesis-based degree programs providing that they obtain permission from the department and the Graduate Program Director.

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Location: Health Sciences Centre, Room G341A

Email address: <mailto:chsgrad@ucalgary.ca>

Web page URL: [GSE Community Health Sciences | Cumming School of Medicine | University of Calgary \(ucalgary.ca\)](http://cumming.ucalgary.ca/gse/programs/community-health-sciences)

## Admissions

### Program Admissions Information

The deadlines for the submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/community-health-sciences-master-science-thesis-based>.

Students applying to the MD/MSc or MD/PhD program must apply individually to each program and complete a supplementary application for the Leaders in Medicine Program.

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In addition to the Cumming School of Medicine requirements, the program requires:

- Minimum admission grade point average of 3.30 on a four-point scale over the last two years consisting of a minimum of 60 units.
  - A statement outlining the applicant's interest and reasons for choosing the program.
  - A letter from a faculty member of our Department indicating interest in supervising the applicant.
  - Work and/or research experience in the health system, community rehabilitation and/or disability studies is highly recommended.
  - Two letters of reference. Note: When choosing your references, it is preferred that you choose individuals, other than your supervisor.
- 

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

Complete ONE of the specialization requirement sets below:

**Complete at least 1 of the following requirement sets:**

- MSc, Community Health Sciences, Clinical Epidemiology
- MSc, Community Health Sciences, Community Rehabilitation and Disability Studies
- MSc, Community Health Sciences, Epidemiology
- MSc, Community Health Sciences, Health Economics
- MSc, Community Health Sciences, Health Services Research
- MSc, Community Health Sciences, Healthcare Epidemiology
- MSc, Community Health Sciences, Medical Education
- MSc, Community Health Sciences, Population and Public Health

For MSc, Community Health Sciences, Biostatistics, see [BioStatist](#).

#### Additional Comments:

Each student is expected to attend and participate in the regularly scheduled [CHS-OIPH seminars](#).

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

Open Studies Students may take courses before applying for admission to a graduate program. However, these students are not eligible to enrol in the Block Week course: Introduction to Community Health Sciences ([MDCH600 Intro to Comm Health Sciences](#)) or Health Research Methods ([MDCH681 Health Research Methods](#)). A maximum of 6 units, completed at a satisfactory level (minimum "B+") and within three years of admission to the graduate program, may be credited toward a student's degree requirements. Completing courses does not guarantee admission into the program.

## Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School of Medicine will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

The program does not normally give credit for undergraduate courses.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of a supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

The supervisory committee must approve the formal Thesis Proposal prior to students commencing their research. MSc research proposals should be submitted and approved within 12 months of the start of program.

After approval by the student's supervisory committee and before commencement of data collection, all proposals are submitted to the Conjoint Health Research Ethics Board for ethical review, and some are submitted to the appropriate committee for impact review.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements, the program requires:

## Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations in MDCH will consist of a 10-minute presentation by the candidate followed by an open oral examination. No public seminar is expected.

### *Scheduling of the Examination*

All members of the supervisory committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy found at <https://cumming.ucalgary.ca/gse/future-students/graduate-admissions>.

Funding opportunities can be found at <http://wcm.ucalgary.ca/gse/programs/community-health-sciences>.

## Overview

### General Program Information

#### Specializations:

- [BioStatist](#)
- Community Rehabilitation and Disability Studies
- Epidemiology
- Healthcare Epidemiology
- Clinical Epidemiology
- Health Economics
- Health Services Research
- Medical Education
- Population/Public Health

Within the thesis-based programs, the student must select a specialization from the list above.

Descriptions of each specialization and its requirements are found on the website at: <http://cumming.ucalgary.ca/gse/programs/community-health-sciences>.

### Part-time/Full-time Study

There is a part-time option for students in the thesis-based degree programs providing that they obtain permission from the department and the Graduate Program Director.

Location: Health Sciences Centre, Room G341A

Email address: <mailto:chsgrad@ucalgary.ca>

Web page URL: [GSE Community Health Sciences | Cumming School of Medicine | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

The deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/community-health-sciences-doctor-philosophy-thesis-based>.

Students applying to the MD/MSc or MD/PhD program must apply individually to each program and complete a supplementary application for the Leaders in Medicine Program.

In addition to the Cumming School of Medicine requirements, the program requires:

- Minimum admission grade point average of 3.30 on a four-point scale over the last two years consisting of a minimum of 60 units.
- A statement outlining the applicant's interest and reasons for choosing the program.
- A letter from a faculty member of our Department indicating interest in supervising the applicant.
- Work and/or research experience in the health system, community rehabilitation and/or disability studies is highly recommended.
- Two letters of reference. Note: When choosing your references, it is preferred that you choose individuals, other than your supervisor.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements** and Cumming School of Medicine requirements:  
Complete ONE of the specialization requirement sets below:

Complete at least 1 of the following requirement sets:

- MSc, Community Health Sciences, Community Rehabilitation and Disability Studies
- MSc, Community Health Sciences, Epidemiology
- MSc, Community Health Sciences, Health Economics
- MSc, Community Health Sciences, Health Services Research
- MSc, Community Health Sciences, Medical Education
- MSc, Community Health Sciences, Population and Public Health

For PhD, Community Health Sciences, Biostatistics, see [BioStatist](#).

**Additional Comments:**

Each student is expected to attend and participate in the regularly scheduled [CHS-OIPH seminars](#).

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

Open Studies Students may take courses before applying for admission to a graduate program. However, these students are not eligible to enrol in the Block Week course: Introduction to Community Health Sciences ([MDCH600 Intro to Comm Health Sciences](#)) or Health Research Methods ([MDCH681 Health Research Methods](#)). A maximum of 6 units, completed at a satisfactory level (minimum "B+") and within three years of admission to the graduate program, may be credited toward a student's degree requirements. Completing courses does not guarantee admission into the program.

## Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School Medicine will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

The program does not normally give credit for undergraduate courses.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a doctoral program is six years. Expected completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of a supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

The supervisory committee must approve the formal Thesis Proposal prior to students commencing their research. MSc research proposals should be submitted and approved within 12 months of the start of program.

For PhD students, approval takes place via a supervisory committee meeting, no later than 25 months from initial registration. Details about the thesis proposal requirements and approval meeting are provided in the CHS Candidacy Policy Effective September 2018, at <https://cumming.ucalgary.ca/gse/current-students/student-forms>.

After approval by the student's supervisory committee and before commencement of data collection, all proposals are submitted to the Conjoint Health Research Ethics Board for ethical review, and some are submitted to the appropriate committee for impact review.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements, the program requires:

### Candidacy

To enter candidacy, doctoral students must (1) successfully complete all required courses, (2) attend Research Integrity Day, (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the written thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete their written Field of Study examination and an Oral Field of Study Examination. For complete details of the candidacy requirements, see CHS Candidacy Policy Effective September 2018: [https://cumming.ucalgary.ca/sites/default/files/teams/13/programs/mdch-candidacy-regulations\\_effective-sept-2018.pdf](https://cumming.ucalgary.ca/sites/default/files/teams/13/programs/mdch-candidacy-regulations_effective-sept-2018.pdf).

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All PhD examinations in MDCH will consist of a 10-minute presentation by the candidate followed by an open oral examination. No public seminar is expected.

#### *Scheduling of the Examination*

All members of the supervisory committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy found at <https://cumming.ucalgary.ca/gse/future-students/graduate-admissions>.

Funding opportunities can be found at <http://wcm.ucalgary.ca/gse/programs/community-health-sciences>.

## Overview

### General Program Information

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

Location: Health Sciences Centre, Room 341A

Email address: <mailto:cvrgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/cardiovascular-respiratory-sciences>

## Admissions

### Program Admissions Information

Deadlines for submission of required documents are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/cardiovascular-respiratory-sciences-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine [requirements](#), the program requires:

## Qualifications

- Four year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

### Additional Requirements

- Applicants to the MSc program are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of cardiovascular and respiratory sciences.

### Program Details

#### Simple Requisites

##### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The amount of course work to be undertaken is determined by the student's supervisory committee; however, it also must meet the minimum requirements of the program.

The minimum academic course requirement is normally 6 units. At least one course (3 units) should be from the list of [recommended MDCV graduate courses](#).

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

##### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### **Flexible Grade Option (CG Grade)**

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### **Credit for Undergraduate Courses**

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599, providing that the course is recommended by the supervisory committee and a written approval is received by the program director.

### **Time Limit**

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

### **Supervisory Assignments, Research Proposal and Required Examinations**

#### **Type**

Completion Requirement

**Additional Comments:**

#### **Supervisory Assignments**

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director. The supervisor will be a member of one of the recognized research institutes within the Cumming School of Medicine (e.g. Libin Cardiovascular Institute, Hotchkiss Brain Institute, Snyder Chronic Disease Institute, etc.).

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

#### **Research Proposal Requirements**

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

#### **Required Examinations**

##### **Thesis Examination**

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

### *Scheduling of the Examination*

All members of the supervisory committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/faculty-and-staff/student-payments>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

Location: Health Sciences Centre, Room 341A

Email address: <mailto:cvrgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/cardiovascular-respiratory-sciences>

## **Admissions**

### **Program Admissions Information**

Deadlines for submission of required documents are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/cardiovascular-respiratory-sciences-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine [requirements](#), the program requires:

## **Qualifications**

## UCalgary

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work if applicable.

### English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

### Additional Requirements

- Doctoral applicants are required to arrange for the submission of three reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of cardiovascular and respiratory sciences.

### Program Details

#### Simple Requisites

##### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies **requirements** and Cumming School of Medicine requirements:

The amount of course work to be undertaken is determined by the student's supervisory committee; however, it also must meet the minimum requirements of the program.

The minimum academic course requirement is normally 9 units. At least one course (3 units) should be from the list of

#### recommended MDCV graduate courses.

Students holding a completed BSc degree entering the PhD program are required to successfully complete a minimum of 9 units.

Students holding a completed MSc degree in the same area of study entering the PhD program are required to complete a minimum of 3 units, provided that a minimum of 6 units were completed during their prior MSc program. This topic should be discussed by the student's supervisory committee, which should then provide a recommendation to the graduate program director regarding the student's graduate course work.

Students transferring from the MSc program to the PhD program are required to complete a minimum of 3 additional units.

Students holding a completed MSc degree in an unrelated field of studies entering the PhD program are required to complete a minimum of 9 units unless otherwise agreed by the student's supervisory committee and approved by the graduate program director.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring an applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599, providing that the course is recommended by the supervisory committee and a written approval is received by the program director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director. The supervisor will be a member of one of the recognized research institutes within the Cumming School of Medicine (e.g. Libin Cardiovascular Institute, Hotchkiss Brain Institute, Snyder Chronic Disease Institute, etc.).

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at:

<http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the supervisory committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external

examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/faculty-and-staff/student-payments>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

### Specializations:

- Physiology
- Biochemistry
- Molecular Biology
- Pharmacology
- Immunology
- Immunopharmacology
- Microbiology
- Nutrition
- Parasitology
- Pathology
- Epidemiology
- Host-Pathogen Interactions

Location: Health Sciences Centre, Room G345A

Email address: <mailto:gigrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/gastrointestinal-sciences-msc-thesis>

Students applying to the MD/Masters or MD/PhD program must apply individually to each program and complete a supplementary application to the Leaders in Medicine program.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of gastrointestinal sciences.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Additional Comments:

In addition to the Faculty of Graduate Studies requirements and Cumming School of Medicine requirements, the Department requires:

- The minimum academic course requirement is normally 6 units, which is met by:
- the satisfactory completion of Gastrointestinal Physiology (Medical Science 637.01) in the first year, and

- the satisfactory completion of another 3-unit graduate-level course in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Exceptions require the approval of the Graduate Program Director.

To qualify for an approved specialization, the supervisor and/or at least one member of the supervisory committee should have expertise in that specialization and the research in the thesis should be largely based in that discipline. In addition, the student should complete graduate course work deemed relevant/required by the supervisor and the supervisory committee for the student to be competent in the specialization.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be set up no later than 3 months after the student's first registration in the program.

### Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

### Required Examinations

#### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

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### Specializations:

- Physiology
- Biochemistry
- Molecular Biology
- Pharmacology
- Immunology
- Immunopharmacology
- Microbiology
- Nutrition
- Parasitology
- Pathology
- Epidemiology
- Host-Pathogen Interactions

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Location: Health Sciences Centre, Room G345A

Email address: <mailto:gigrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <http://www.ucalgary.ca/future-students/graduate/explore-programs/gastrointestinal-sciences-doctor-philosophy-thesis-based>.

Students applying to the MD/Masters or MD/PhD program must apply individually to each program and complete a supplementary application to the Leaders in Medicine program.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

### Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work, if applicable.

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## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or

- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of gastrointestinal sciences.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies **requirements** and Cumming School of Medicine requirements, the Department requires:

The minimum academic course requirement is normally 9 units, which is met by:

- the satisfactory completion of Gastrointestinal Physiology (**MDSC637.01 Organization Function GI Tract**) in the first year, and
- the satisfactory completion of two additional 3-unit graduate-level courses in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Exceptions require the approval of the Graduate Program Director.

To qualify for an approved specialization, the supervisor and/or at least one member of the supervisory committee should have expertise in that specialization and the research in the thesis should be largely based in that discipline. In addition, the student should complete graduate course work deemed relevant/required by the supervisor and the supervisory committee for the student to be competent in the specialization.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by

the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be set up no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

### Specialization:

- Host-Pathogen Interactions

Faculty members are affiliated with the Cumming School of Medicine and the Faculties of Science and Veterinary Medicine.

The Immunology Graduate Program is offered in collaboration with the above faculties, and the curriculum has been designed for students with undergraduate or MSc degrees in those faculties. Background experience, qualifications, and areas of interest of applicants will be taken into account at the time of admission.

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Students in the MSc and PhD degree programs are normally considered full-time.

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Location: Health Sciences Centre, Room G345A

Email address: <mailto:imgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

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## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <http://www.ucalgary.ca/future-students/graduate/explore-programs/immunology-master-science-thesis-based>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
  - A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- 

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

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## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- An undergraduate course in immunology (Cellular, Molecular and Microbial Biology 527 or equivalent). It will be possible for a student to take Medical Science 640 during the first year of their program if they do not have an appropriate prerequisite course.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of immunology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Immunology Graduate Program requires:

The minimum academic course requirement is normally 6 units, which is met by:

- the satisfactory completion of Cellular and Molecular Immunology ([MDSC639.02 Cellular & Molecular Immunology](#)) and Inflammation ([MDSC639.04 Inflammation](#)) in the first year, and
- the satisfactory completion of another 3-unit graduate-level course in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Each student is required to participate regularly in the Synder Institute graduate program seminar series and present at least one work in progress seminar per year.

Contributions to journals, relevant journal clubs and/or seminars are an expectation. Visit the program [website](#).

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

Applicants must make request for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

### Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

### Required Examinations

#### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see **Thesis Examinations**).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the MDCV program director and the Faculty of Graduate Studies.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see **Awards and Financial Assistance** section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

#### **Specialization:**

- Host-Pathogen Interactions

Faculty members are affiliated with the Cumming School of Medicine and the Faculties of Science and Veterinary Medicine.

The Immunology Graduate Program is offered in collaboration with the above faculties, and the curriculum has been designed for students with undergraduate or MSc degrees in those faculties. Background experience, qualifications, and areas of interest of applicants will be taken into account at the time of admission.

Students in the MSc and PhD degree programs are normally considered full-time.

Location: Health Sciences Centre, Room G345A

Email address: <mailto:imgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## **Admissions**

### **Program Admissions Information**

Application deadlines are available on the Future Students webpages: <http://www.ucalgary.ca/future-students/graduate/explore-programs/immunology-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

### Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four-year BSc degree or equivalent.
  - A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work, if applicable.
- 

### English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

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### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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### Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- An undergraduate course in immunology (Cellular, Molecular and Microbial Biology 527 or equivalent). It will be possible for a student to take Medical Science 640 during the first year of their program if they do not have an appropriate prerequisite course.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of immunology.

### Program Details

#### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Immunology Graduate Program requires:

The minimum academic course requirement is normally 9 units, which is met by:

- the satisfactory completion of Cellular and Molecular Immunology ([MDSC639.02 Cellular & Molecular Immunology](#)) and Inflammation ([MDSC639.04 Inflammation](#)) in the first year, and
- the satisfactory completion of another 3-unit graduate-level course in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Exceptions require the approval of the Graduate Program Director.

Each student is required to participate regularly in the Synder Institute graduate program seminar series and present at least one work in progress seminar per year.

Contributions to journals, relevant journal clubs and/or seminars are an expectation. Visit the program [website](#).

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Applicants must make request for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at:

<http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes

the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

### Contact Information

Location: Health Sciences Centre G212

Student Information: 403.220.4262

Email address: [ucmedapp@ucalgary.ca](mailto:ucmedapp@ucalgary.ca)

Website: [cumming.ucalgary.ca/mdprogram](https://cumming.ucalgary.ca/mdprogram)

## Doctor of Medicine

The Cumming School Medicine of the University of Calgary offers a three-year professional degree leading to a Doctor of Medicine (MD).

Following completion of the undergraduate medical program students must complete postgraduate medical training prior to starting independent practice. They need to obtain certification from the College of Family Physicians of Canada (a minimum of two additional years of training) or a Royal College of Physicians and Surgeons of Canada program (a minimum of four additional years of training). The University of Calgary has more than 60 residency training programs.

Full details can be found on the Cumming School of Medicine Postgraduate Medical Education website: [ucalgary.ca/pgme](https://ucalgary.ca/pgme).

## Leaders in Medicine Program (LIM)

The LIM joint degree program offers students the opportunity to pursue graduate studies (Master's, PhD or MBA) in conjunction with the Medical Doctor Program (MD). The goal of this joint program is to train highly motivated students to become the future leaders of clinical and investigative medicine. The LIM Affiliate program is designed to allow students enrolled in medical school, who may have already completed a graduate degree or who were accepted into medical school without a graduate degree but have a strong interest in research, to participate in the program if interested in both the clinical and research part of medicine.

Eligibility for the Leaders in Medicine program requires admission to both the UME Program and a Graduate Program at the University of Calgary.

For more information on the LIM Program:

Email: [mdgrad@ucalgary.ca](mailto:mdgrad@ucalgary.ca)

Website: [Leaders in Medicine](#)

## Admissions

## Program Admissions Information

For Doctor of Medicine admission information see [5.3 Admissions](#).

## Program Details

### Simple Requisites

#### Faculty Regulations

##### Type

Completion Requirement

#### Faculty Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Doctor of Medicine - Graduation

For other regulations related to the Doctor of Medicine program see [5.6 Faculty Regulations](#)

#### Additional Comments:

#### Program Requirement

##### Type

Completion Requirement

#### Schedule of Classes and Timetable

The schedule of classes offered in each year of the MD Program is available online in the student scheduling system OSLER. In exceptional circumstances changes may be made to a student's timetable to meet the schedule of the program. Schedule of detailed class information is available in the online student schedule in OSLER at: [osler.ucalgary.ca/](http://osler.ucalgary.ca/).

Students should refer to the online schedule in OSLER to ensure that they are not scheduling extracurricular events or overlapping with scheduled class time. In addition, master timetables of the curriculum can be found online. Refer to this link for the most updated version of the general timetable: Timetable.

#### Timelines

Year 1: July – June (12 Months)

Year 2: July – December (6 Months)

Year 3: January – April (16 Months)

#### Curriculum Requirements (Core Courses)

**Fulfill ALL of the following requirements:**

##### Year 1

**Complete ALL of the following Course Sets:**

- Block 1: Medicine 331, 332, 333, 334, 397
- Block 2: Medicine 335, 336, 337, 338, 398, 399

**AND**

##### Year 2

**Complete ALL of the following Course Sets:**

- Block 3: Medicine 441, 442, 443, 444, 499

AND

Year 3

**Complete ALL of the following Course Sets:**

- Medicine 502, 504, 506, 508, 510, 512, 514, 516, 520, 522

For a complete listing and description of all courses offered in the MD Program, refer to the Courses of Instruction section of the University Calendar.

**Additional Comments:**

## Course Outlines

Course outlines will be made available for each course and posted online within 2 weeks prior to the first day of the course start date.

Refer to [E.1 Course Outlines](#) for more information.

## Overview

### General Program Information

Location: Health Sciences Centre, Room G345A

Email address: <mailto:midgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <http://www.ucalgary.ca/future-students/graduate/explore-programs/microbiology-infectious-disease-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of microbiology and infectious diseases.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Department requires:

The minimum academic course requirement is normally 6 units at the graduate level in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca> within the first year of their program.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

Applicants must make requests for Advanced Credit as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### **Flexible Grade Option (CG Grade)**

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### **Credit for Undergraduate Courses**

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the program director.

### **Time Limit**

Completion times follow the Faculty of Graduate Studies regulations (see Time Limits):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

### **Supervisory Assignments, Research Proposal and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

### **Supervisory Assignments**

The selection of a graduate supervisor must be by mutual agreement between the student and the supervisor at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

### **Research Proposal Requirements**

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

### **Required Examinations**

#### **Thesis Examination**

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see Thesis Examinations).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

Location: Health Sciences Centre, Room G345A

Email address: <mailto:midgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## **Admissions**

### **Program Admissions Information**

Application deadlines are available on the Future Students webpages: <http://ucalgary.ca/future-students/graduate/explore-programs/microbiology-infectious-disease-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## **Qualifications**

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work, if applicable.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of microbiology and infectious diseases.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Department requires:

The minimum academic course requirement is normally 9 units at the graduate level in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the program director.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the supervisor at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by

the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

Students in the MSc are normally considered full-time.

### Specializations:

## UCalgary

- [Comp Neuro](#)
  - [Medical Im](#)
- 

Location: Health Sciences Centre, Room G347C

Email address: [mailto:neurosci@ucalgary.ca](mailto:mailto:neurosci@ucalgary.ca)

Web page URL: <https://cumming.ucalgary.ca/gse/about/programs/neuroscience>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/neuroscience-msc-thesis-based>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
  - A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- 

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

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## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of neuroscience.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 6 units which is met by the satisfactory completion of Cellular, Molecular and Developmental Neuroscience ([MDSC619.01 Cellular, Molecular Neuroscience](#)), and Systems Neuroscience and Neuropathology ([MDSC619.02 Sys Neuroscience & Neuropath](#)) in the first year.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

#### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

#### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <https://www.cihr-irsc-igh-isfh.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

#### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.  
The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

## Required Examinations

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

## UCalgary

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

Students in the PhD program are normally considered full-time.

#### Specializations:

- [Comp Neuro](#)
- [Medical Im](#)

Location: Health Sciences Centre, Room G341A

Email address: <mailto:neurosci@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/programs/neuroscience>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/neuroscience-phd>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine [requirements](#), the program requires:

### Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work, if applicable.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or

## UCalgary

- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of neuroscience.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 9 units which is met by:

- the satisfactory completion of Cellular, Molecular and Developmental Neuroscience ([MDSC619.01 Cellular,MolecularNeuroscience](#)) and Systems Neuroscience and Neuropathology ([MDSC619.02 Sys Neuroscience & Neuropath](#)) in the first year, and
- the satisfactory completion of another 3-unit graduate-level course in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming

School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <https://www.cihr-irsc-igh-isfh.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by

the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see **Thesis Examinations**).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see **Awards and Financial Assistance** section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

This degree is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS) and allows graduates to qualify for the American Society of Clinical Pathology (ASCP) and the Canadian Certification Council of Pathologists' Assistants (CCCPA) examinations.

## UCalgary

This is a continuous program with no scheduled break. Students who do not enrol in courses for a period exceeding 4 months will be withdrawn from the program for failure to register unless they are on an approved Leave of Absence.

All students are considered full-time. Part-time status may be considered and must be approved by the Graduate Program Director.

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Location: Health Sciences Centre, Graduate Science Education, G345A

For prospective students: <mailto:gseadmissions@ucalgary.ca>

For current students: <mailto:mpath@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/pathologists-assistant>

## Admissions

### Program Admissions Information

For application deadline, see the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/pathologists-assistant-master-pathologists-assistant-course-based>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

### Qualifications

- Four-year BSc degree in biological sciences, or its equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to submit two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- A current Curriculum Vitae (CV).

- Students in the program will be required to complete a police background and vulnerable sector check before their practicum placements in the second year.

## Suggested Preparatory Courses

Principles of Genetics ([BIOL311 Principles of Genetics](#) or equivalent), Introduction to Cellular and Molecular Biology ([BIOL331 Introduction to CMMB](#) or equivalent), Introduction to Biochemistry ([BCEM393 Introduction to Biochemistry](#) or equivalent), and senior-level course work in at least two of the following subject areas: anatomy, physiology, pathology, microbiology, molecular biology, immunology, clinical laboratory medicine and histology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the program requires all Pathologists' Assistant students to successfully complete 45 units:

##### Enroll in the following Course Sets:

- Medical Pathologist's Assistant Required Courses

It is required that all PA students will successfully complete (minimum "B-") all Fall and Winter courses prior to beginning their practicum.

In addition to the courses listed, students must complete an online medical terminology course.

#### Additional Comments:

### Additional Requirements

Police background check and vulnerable service search are required 90 days before starting the second year practicum.

Ability to perform the Essential Functions of a Pathologists' Assistant, as described in the [Pathologists' Assistant Student Handbook](#).

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

##### Advanced Credit

## Advanced Credit

In consultation with the Graduate Program Director, [Advanced Credit](#) may be requested in accordance with Faculty of Graduate Studies regulations (see Advanced Credit). Applicants must make advanced credit requests as part of the admission process. The requests will be reviewed by the Graduate Program Director and Medical Director and decisions will be made on a case-by-case basis. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Course Exemption

Course exemptions are reviewed by the Graduate Program Director and Medical Director and decision are made on a case-by-case basis.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

With the exception of Medical Science 515, credit will not be given for courses taken below the 600-level.

## Time Limit

It is highly recommended that the program be completed in two years on a full-time basis. It may also be completed on a part-time basis with the Director's approval.

## Supervisory Assignments

The Graduate Program Director will serve as interim advisor for all newly admitted students. In the course-based Pathologists' Assistant program, there is no requirement for students to have a supervisor. We do recommend, however, that students have a mentor within the Department of Pathology and Laboratory Medicine.

## Program Fee

A program fee applies to this program. See [Graduate Program-Specific Tuition and Fees](#).

## Overview

### General Program Information

Each graduate credential in Precision Health is a cohort-based, 12 month program.

### Specializations:

- Precision Medicine
- Quality and Safety Leadership
- Health Professional Education Leadership
- Innovation and Entrepreneurship

The Precision Health program is not designed for students to complete more than one specialization at a time.

## Laddered pathway from the Graduate Certificate to the Graduate Diploma to the Master of Precision Health

Students who complete the Graduate Certificate in Precision Health in any specialization may receive laddering credit for the 12 units of coursework completed in that certificate if they are subsequently accepted into the **GDIP Preci** program within 5 years of beginning the Graduate Certificate.

Students who complete the Graduate Diploma in Precision Health may receive laddering credit for the 12 units of coursework completed in the diploma program and the 12 units of coursework completed in the certificate if they are subsequently accepted into the **Master of** Program within 5 years of beginning the first credential in the laddering process.

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Location: Health Sciences Centre, Room G349C

Fax: 403.210.8109

Email address: <mailto:prehgrad@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/programs/precision-health-program>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/precision-health-certificate>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- A four-year baccalaureate degree from a recognized institution in a health-related discipline.
  - A minimum admission grade point average of 3.30 on a four-point scale or equivalent calculated on the last 60 units completed.
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## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

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## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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## Additional Requirements

- A current curriculum vitae.
- Applicants to the Graduate Certificate and Graduate Diploma program must provide a vision statement (no more than one page in length, single space, maximum 500 words) outlining career goals, and how the Precision Health program will help to achieve them.
- Applicants to the Master's program are also required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.

Meeting the minimum admission criteria above does not guarantee acceptance into the program.

*Note: As per Section A.1 of the University of Calgary's Graduate Calendar, in exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to this program. The candidate must provide evidence demonstrating the potential to successfully undertake the certificate program. Such candidates may also be required to participate in an in-person interview with the Associate Dean, Graduate Science Education. In all such cases, the decision whether to admit rests with the Dean of the Faculty of Graduate Studies.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Certificate requires 12 units of coursework within one of the specializations:

**Complete ANY of the following Course Sets:**

- Precision Health GC, Precision Medicine  
**OR** Precision Health GC, Quality and Safety Leadership  
**OR** Precision Health GC, Health Professional Education Leadership  
**OR** Precision Health GC, Innovations and Entrepreneurship

**Additional Comments:**

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

See [Advanced Credit](#).

## Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School of Medicine will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be given for undergraduate-level courses.

## Time Limit

The expected completion time for each laddering credential (Graduate Certificate, Graduate Diploma, Master's) is 12 months, with a maximum completion time for each credential of two years.

Note: Faculty of Graduate Studies requirements state the maximum time limit for completion of a course-based Master's degree is six years; therefore, students must complete all steps in the laddering process (Graduate Certificate, Graduate Diploma, and Master's) within six years of beginning the first step.

## Supervisory Assignments

The Graduate Program Director will serve as advisor for all newly admitted students. In the MDPR program, there is no requirement for students to have a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see <https://cumming.ucalgary.ca/gse/current-students/scholarships> and the [Awards and Financial Assistance](#) section of this calendar.

## Overview

### General Program Information

Each graduate credential in Precision Health is a cohort-based, 12 month program.

#### Specializations:

- Precision Medicine
- Quality and Safety Leadership
- Health Professional Education Leadership
- Innovation and Entrepreneurship

The Precision Health program is not designed for students to complete more than one specialization at a time.

## Laddered pathway from the Graduate Certificate to the Graduate Diploma to the Master of Precision Health

Students who complete the **GCERT Prec** in any specialization may receive laddering credit for the 12 units of coursework completed in that certificate if they are subsequently accepted into the Graduate Diploma in Precision Health program within 5 years of beginning the Graduate Certificate.

Students who complete the Graduate Diploma in Precision Health may receive laddering credit for the 12 units of coursework completed in the diploma program and the 12 units of coursework completed in the certificate if they are subsequently accepted into the **Master of** Program within 5 years of beginning the first credential in the laddering process.

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Location: Health Sciences Centre, Room G349C

Fax: 403.210.8109

Email address: <mailto:prehgrad@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/programs/precision-health-program>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/precision-health-diploma>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Completion of the Graduate Certificate in Precision Health in student's area of specialization with a GPA of 3.30 or higher.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- A current curriculum vitae.

- Applicants to the Graduate Certificate and Graduate Diploma program must provide a vision statement (no more than one page in length, single space, maximum 500 words) outlining career goals, and how the Precision Health program will help to achieve them.
- Applicants to the Master's program are also required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.

Meeting the minimum admission criteria above does not guarantee acceptance into the program.

*Note: As per Section A.1 of the University of Calgary's Graduate Calendar, in exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to this program. The candidate must provide evidence demonstrating the potential to successfully undertake the certificate program. Such candidates may also be required to participate in an in-person interview with the Associate Dean, Graduate Science Education. In all such cases, the decision whether to admit rests with the Dean of the Faculty of Graduate Studies.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Diploma requires 12 units of coursework consisting of:

##### Complete ALL of the following Course Sets:

- Precision Health GD

\*If MDPR 601 is already completed, choose a course from any [GCERT Prec](#) specialization.

In addition to the above 3 courses, choose one elective course from any [GCERT Prec](#) specialization.

#### Additional Comments:

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

See [Advanced Credit](#).

## Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School of Medicine will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be given for undergraduate-level courses.

## Time Limit

The expected completion time for each laddering credential (Graduate Certificate, Graduate Diploma, Master's) is 12 months, with a maximum completion time for each credential of two years.

Note: Faculty of Graduate Studies requirements state the maximum time limit for completion of a course-based Master's degree is six years; therefore, students must complete all steps in the laddering process (Graduate Certificate, Graduate Diploma, and Master's) within six years of beginning the first step.

## Supervisory Assignments

The Graduate Program Director will serve as advisor for all newly admitted students. In the MDPR program, there is no requirement for students to have a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see <https://cumming.ucalgary.ca/gse/current-students/scholarships> and the **Awards and Financial Assistance** section of this calendar.

## Overview

### General Program Information

Each graduate credential in Precision Health is a cohort-based, 12 month program.

#### Specializations:

- Precision Medicine
- Quality and Safety Leadership
- Health Professional Education Leadership
- Innovation and Entrepreneurship

The Precision Health program is not designed for students to complete more than one specialization at a time.

### Laddered pathway from the Graduate Certificate to the Graduate Diploma to the Master of Precision Health

Students who complete the **GCERT Prec** in any specialization may receive laddering credit for the 12 units of coursework completed in that certificate if they are subsequently accepted into the **GDIP Preci** program within 5 years of beginning the Graduate Certificate.

## UCalgary

Students who complete the Graduate Diploma in Precision Health may receive laddering credit for the 12 units of coursework completed in the diploma program and the 12 units of coursework completed in the certificate if they are subsequently accepted into the Master of Precision Health Program within 5 years of beginning the first credential in the laddering process.

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Location: Health Sciences Centre, Room G349C

Program number: 403.210.7051

Fax: 403.210.8109

Email address: [prehgrad@ucalgary.ca](mailto:prehgrad@ucalgary.ca)

Web page URL: <https://cumming.ucalgary.ca/gse/programs/precision-health-program>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/precision-health-master>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Completion of the Graduate Diploma in Precision Health with a GPA of 3.30 or higher.

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## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

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## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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## Additional Requirements

- A current curriculum vitae.
- Applicants to the Graduate Certificate and Graduate Diploma program must provide a vision statement (no more than one page in length, single space, maximum 500 words) outlining career goals, and how the Precision Health program will help to achieve them.

- Applicants to the Master's program are also required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.

Meeting the minimum admission criteria above does not guarantee acceptance into the program.

*Note: As per Section A.1 of the University of Calgary's Graduate Calendar, in exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to this program. The candidate must provide evidence demonstrating the potential to successfully undertake the certificate program. Such candidates may also be required to participate in an in-person interview with the Associate Dean, Graduate Science Education. In all such cases, the decision whether to admit rests with the Dean of the Faculty of Graduate Studies.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Master's requires 9 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Master of Precision Health

*Precision Medicine students take Medical Precision Health 619*

*Quality and Safety Leadership students take Medical Precision Health 629*

*Health Professional Education Leadership students take Medical Precision Health 639*

*Innovation and Entrepreneurship students take Medical Precision Health 649*

#### Additional Comments:

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

See [Advanced Credit](#).

## Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School of Medicine will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be given for undergraduate-level courses.

## Time Limit

The expected completion time for each laddering credential (Graduate Certificate, Graduate Diploma, Master's) is 12 months, with a maximum completion time for each credential of two years.

Note: Faculty of Graduate Studies requirements state the maximum time limit for completion of a course-based Master's degree is six years; therefore, students must complete all steps in the laddering process (Graduate Certificate, Graduate Diploma, and Master's) within six years of beginning the first step.

## Supervisory Assignments

The Graduate Program Director will serve as advisor for all newly admitted students. In the MDPR program, there is no requirement for students to have a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see <https://cumming.ucalgary.ca/gse/current-students/scholarships> and the **Awards and Financial Assistance** section of this calendar.

## Overview

### General Program Information

The University of Calgary Master of Physician Assistant Studies (MPAS) program is an intensive 93-unit course-based program delivered full-time over two years.

Location: G204 Health Sciences Centre

Email address: <mailto:mpas@ucalgary.ca>

Web Page: [Master of Physician Assistant Studies | Cumming School of Medicine | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs>.

# UCalgary

Applicants will move through a multi-stage admission process.

Applications and all supporting documents will be submitted at <https://grad.ucalgary.ca/future-students/how-apply>. All application materials will be forwarded to the MPAS program office for administrative review as well as evaluation and ranking by the MPAS Program Admissions Committee, which is made up of internal and external reviewers.

Short-listed applicants will be required to participate in an interview.

Meeting the minimum admission criteria below does not guarantee acceptance into the program. All applicants with complete applications will be ranked according to evidence from reference letters, personal essays, experiences described in the application, Casper score, and GPA.

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In addition to the Faculty of Graduate Studies [admission requirements](#) and Cumming School of Medicine requirements, the program requires:

## a) Qualifications

- Completion of a four-year baccalaureate degree from an institution recognized by the University of Calgary. Students in their final year of study in a baccalaureate degree program may apply.
- A minimum admission grade point average of 3.20 (on the University of Calgary four-point system); this is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- Canadian citizenship, permanent residency, or refugee status in Canada.
- Applicants must have prior client-facing health care experience. This may include direct hands-on patient care experience in a clinical setting, clinical placements in healthcare education programs, or volunteer experience. Applicants will be required to list the number of hours, location of experience, and role, as well as provide a verifier name and phone number.

## b) Preferred Criteria

- Candidates who have shown a commitment to service in their communities. Applicants will be required to list the number of hours, location of experience, and role, as well as provide a verifier name and phone number.
- Alberta residents. Applicants will be considered Alberta residents if they meet one of the following criteria:
  - Have been physically present in Alberta (or NWT, Yukon or Nunavut) on a day-to-day basis for 24 consecutive months at some point between their 15th birthday and the first day of classes (of the year for which they are applying).
  - Have been on active duty for the 24 months prior to classes starting with the Canadian Armed Forces (not including members of the reserves) or the RCMP.

## c) English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum internet-based TOEFL score of 105 (with no section less than 20), or
- a minimum IELTS Academic version overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no sub-score below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or
- This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## d) Immunizations

- All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.
- Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact the MPAS office for more information.

## e) Additional Requirements

- Two referees: Applicants will submit names and professional email addresses for referees in their online applications. Referees will receive an email invitation to provide references online. Recommendations will address the applicant's suitability for the program, professionalism, integrity, and motivation. Prior employers, professional colleagues, and academic advisors are acceptable references.
- Completion of the following coursework at the post-secondary level with a minimum grade of B (3.00 on a 4.00 scale or equivalent) in each of these courses:
  1. Minimum of 3.0 units of Human Anatomy
  2. Minimum of 3.0 units in Human Physiology
- Completion of the Computer-Based Assessment for Sampling Personal Characteristics (Casper®). Casper is an online evaluation that assesses non-cognitive skills and interpersonal characteristics that are important for success in the MPAS program. For more information about the Casper exam, including how to register, please visit <https://acuityinsights.app/casper/>.
- Indigenous Education Requirements: We recognize the importance of building knowledge and skills for future Physicians Assistants to work with Indigenous peoples in safe ways. Baseline knowledge is critically important and as such, applicants admitted into the program must complete an Indigenous education requirement which can be met in one of the following ways:
  - Completion of the Indigenous Canada MOOC (online). Completion should be evidenced by certificate or user screenshot; or
  - University of Calgary Indigenous Relations Training Program (in-person or online). Completion should be evidenced by certificate; or
  - Successful completion of a minimum 3-unit course in Indigenous studies from a post-secondary institution as evidenced on an official transcript. If the content of the course is not clearly evidenced by a transcript, students may be required to provide a copy of the course outline. (Examples of University of Calgary courses include: [INDG201 Intro to Indigenous Studies](#), [INDG303 Indigenous Ways of Knowing](#), [INDG343 Indigenous Law in Canada](#), [INDG345 INDG Research Ethics Practice](#), [INDG350 Introduction to Indigenous Art](#), [INDG351 INDG Relational Thr'y Practice](#), [INDG395 INDG Gender Sexuality Feminism](#), [INDG397 Topic Cdn Indigenous Studies](#), [INDG399 Topic Int'l Indigenous Studies](#), [INDG400 Directed Research Int'l INDG](#), [INDG407 Comp Int'l Indg Communities](#), [INDG415 Indigenous Ethics and Protocol](#), [INDG492 \(PSYC 492\) Indigenous PSYC](#), [INDG493 Animal-Human Relationships](#), [INDG494 Int'l INDG Experiential Lrn'g](#), [INDG495 Treaty Matters, Then and Now](#), [INDG496 Métis Matters, Then and Now](#)); or
  - A degree, diploma, or certificate in Indigenous studies. Completion should be evidenced on an official transcript.

Admitted students will be required to provide proof of course completion by the start of the program.

- A personal statement (500 words maximum). Visit the Master of Physician Assistant Studies [\*\*website\*\*](#) for additional detail.

Short-listed applicants will be invited to participate in an online interview process. Invited applicants will be interviewed by members of faculty at the Cumming School of Medicine, community members, students and allied health members and will be ranked at the end of the interview process.

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## Parallel Admission Pathways\*

### Equity Admissions Pathway

The Equity Admissions Pathway is designed to provide a platform for applicants from historically underrepresented communities to share their unique perspectives and experiences. Applicants who are members of equity deserving groups including, but not limited to, visible/racialized minorities, individuals with disabilities, LGBTQ2S+, those from rural and remote communities, and those facing socio-economic challenges are encouraged to apply through this pathway. Applicants choosing this pathway will be required to submit a 500-word essay describing: their identity, connections and affiliations with their identified community, reasons for wishing to become a physician assistant, discuss their vision of health service to their identified community and populations, and personal privileges and structural and historical barriers they have faced related to their identity.

### Indigenous Admissions Pathway

This pathway aligns with the university's Indigenous Strategy ii' taa'poh'to'p and is tailored to applicants who self-identify as First Nations, Métis, or Inuit. Applicants choosing this pathway will be required to submit a 500-word essay describing and discussing:

their Indigenous identity, connections and affiliations with their Indigenous community, reasons for wishing to become a physician assistant, discuss their vision of health service to Indigenous populations, personal privileges and barriers related to their Indigenous identity, and how they can or will contribute to the health and flourishing of Indigenous populations.

*\*Applicants pursuing a parallel admission pathway are to submit one essay and are not required to complete the essay required for all other program applicants.*

Students in the Indigenous Admissions Pathway will be supported by the MPAS program office for pathway advising and the Writing Symbols Lodge for academic, personal, and cultural support.

Students in the Indigenous Admissions Pathway and Equity Admissions Pathway will also be referred to the **Support to Entry Program** (STEP) offered by the Precision Equity and Social Justice Office at Cumming School of Medicine. STEP is designed to address barriers that equity-deserving groups encounter when preparing to enter medicine and health science studies. STEP participants will receive support for the application (essay, interview) and/or be part of the mentorship program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the program requires all Master of Physician Assistant students to successfully complete 93 units as follows:

##### Year One

Complete 45 units:

**Complete ALL of the following Course Sets:**

- MPAS Year One Courses

In special circumstances as an additional support for students, and with the approval of the Graduate Program Director, a student can take one of the Special Topics courses: [MDPS661 Spcl Tps Phys Asst Prct I](#), [MDPS662 Spcl Tps Phys Asst Prct II](#) or [MDPS663 Spcl Tps Phys Asst Prct III](#).

##### Additional Requirements in Year One

##### Medical Terminology Module

In the Fall term of year one of the program, students will be required to successfully complete a medical terminology module, which will be reflected as a milestone on students' transcripts. The module must be completed by the end of the Fall term for students to progress to the Winter term of year one.

##### Year Two

Complete 48 units:

**Complete ALL of the following Course Sets:**

- MPAS Year Two Courses

In special circumstances as an additional support for students, and with the approval of the Graduate Program Director, a student can take one of the Special Topics courses: [MDPS664 Spc Cln Tpcs Phys Asst Prct I](#), [MDPS665 Spc Cln Tpcs Phys Asst Prct II](#) or [MDPS667 SpcCln Tpcs Phys Asst Prct III](#).

#### Additional Comments:

#### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Progression and Completion

Assessment in the MPAS program is grounded in principles of competency-based education to ensure that students acquire and demonstrate the necessary competencies for professional practice as Physician Assistants.

All courses in the MPAS program are graded as CR (Completed Requirements) or F (Fail). Students must complete all courses with a CR in order to progress in the program.

All students will receive a progress report by the end of each term to reflect on their progress and identify potential areas for improvement. With the approval of the Graduate Program Director, students can choose to take a special topics course to support their studies. Additional fees will apply to the elective courses.

Students who receive a "Fail" grade in coursework or clinical rotations will be required to retake the same course. Additional fees will apply to the retake course(s). At the discretion of the Graduate Program Director, students who: a) receive a "Fail" grade in coursework or clinical rotations, and b) are not progressing academically, may be recommended to the Faculty of Graduate Studies for withdrawal from the program.

## Advanced Credit

Advanced Credit will not be accepted for the Master of Physician Assistant Studies Program.

## Flexible Grade Option (CG Grade)

The **Flexible Grade Option (CG Grade)** is not applicable within the MPAS program as all courses in the MPAS Program are graded as CR (Completed Requirements) or F (Fail).

## Time Limits

Expected completion time is two years (full-time). Maximum completion time is four years.

Requests for exceptions to this will be reviewed on a case-by-case basis. Leaves of Absence will be considered according to the Faculty of Graduate Studies Academic Regulations.

## Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar and the Graduate Awards [Database](#).

## Overview

### General Program Information

Students in the MSc degree program are normally considered full-time.

### Specializations:

- Cancer Biology
- Critical Care Medicine
- Mountain Medicine and High-Altitude Physiology
- Joint Injury and Arthritis Research

## UCalgary

- Biomechanics
  - Biomedical Ethics
  - Molecular & Medical Genetics
  - Pathologists' Assistant (currently not accepting applications)
  - Physiology
  - Surgery (In co-operation with the Department of Surgery)
  - Medical Im
- 

Location: Health Sciences Centre, Room G341A

Email address: <mailto:medgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/medical-science>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/medical-science-master-science-thesis-based>.

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In addition to the Faculty of Graduate Studies and Cumming School of Medicine [requirements](#), the Medical Science Graduate Program requires:

## Qualifications

- A four-year BSc degree or equivalent.
  - A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
  - A minimum 3.30 grade point average is also required in courses relevant to the proposed field of study.
- 

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

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## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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## Additional Requirements

- Applicants are required to arrange for the submission of two reference. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- For admission to the Master of Science program with a specialization in surgery, prior admission to the surgery residency program is required. Students will normally apply to the Master of Science program in the third year of the surgery residency program. For admission to the Surgeon Scientist Program, prior admission to the Medical Science Graduate Program is required.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria described above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of medical science.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 6 units at the graduate level in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

### Journal Club and Work-in-Progress Seminars

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point

average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of the supervisor and co-supervisor (if applicable), plus two additional members must be in place no later than 3 months after the student's first registration in the program. Specializations in the MDSC program may have additional requirements.

### Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program. For additional information about the PhD research proposal, refer to: <https://www.ucalgary.ca/pubs/calendar/grad/current/wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Required Examinations

#### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see **Thesis Examinations**).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor and co-supervisor, if applicable) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see **Awards and Financial Assistance** section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

Students in the PhD degree program are normally considered full-time.

### **Specializations:**

- Cancer Biology
- Critical Care Medicine
- Mountain Medicine and High-Altitude Physiology
- Joint Injury and Arthritis Research
- Biomechanics
- Biomedical Ethics
- Molecular & Medical Genetics
- Pathologists' Assistant (currently not accepting applications)
- Physiology
- Surgery (In co-operation with the Department of Surgery)
- Medical Im

Location: Health Sciences Centre, Room G341A

Email address: <mailto:medgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/medical-science>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://www.ucalgary.ca/future-students/graduate/explore-programs/medical-science-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies and Cumming School of Medicine [requirements](#), the Medical Science Graduate Program requires:

### Qualifications

- A MSc degree, or relevant Master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four year BSc degree or equivalent.
  - A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work if applicable.
  - A minimum 3.30 grade point average is also required in courses relevant to the proposed field of study.
- 

### English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

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### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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### Additional Requirements

- Applicants are required to arrange for the submission of two references. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- For admission to the Master of Science program with a specialization in surgery, prior admission to the surgery residency program is required. Students will normally apply to the Master of Science program in the third year of the surgery residency program. For admission to the Surgeon Scientist Program, prior admission to the Medical Science Graduate Program is required.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria described above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of medical science.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 9 units at the graduate level in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Only one [MDSC755 Directed Study](#) or [MDGE755 Directed Studies](#) course can be taken for credit.

Exceptions require the approval of the Graduate Program Director.

### Journal Club and Work-in-Progress Seminars

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of the supervisor and co-supervisor (if applicable), plus two additional members must be in place no later than 3 months after the student's first registration in the program. Specializations in the MDSC program may have additional requirements.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program. For additional information about the PhD research proposal, refer to: <https://www.ucalgary.ca/pubs/calendar/grad/current/wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor and co-supervisor, if applicable) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see **Awards and Financial Assistance** section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

A Graduate Specialization in Medical Imaging is offered in conjunction with the following graduate programs:

- Biomedical Engineering
- Electrical and Computer Engineering
- Medical Sciences
- Neurosciences
- Physics and Astronomy
- Psychology

The specialization is offered at the MSc and PhD level.

Location: FMC MRG 006

Program number: 403.944.8354

Email address: <mailto:medi@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/programs/medical-imaging-specialization/graduate-specialization>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization.

Admission into a graduate program that offers the Graduate Specialization in Medical Imaging and submission and approval of a written request to join the Specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Medical Imaging specialization must meet the following requirements:

- a) MSc students must take a minimum of 6 units (the core and an elective course). PhD students take at least 9 units (the core and two elective courses). PhD students previously completing the MSc specialization in Medical Imaging will be required to complete an additional 3 units (one elective course).
- b) Medical Imaging-related research thesis.
- c) Attendance and annual presentation in the [Advanced Imaging Seminar Series](#).

These requirements are in addition to the core requirements of a specific participating graduate program. In most programs, the medical imaging graduate courses would count towards graduate program elective courses. In some graduate programs, participation in the specialization may require students to take an additional graduate course or courses.

Core required course:

**Complete ALL of the following Courses:**

- MDSC689.01 - Medical Imaging Techniques

Elective courses:

**Complete ANY of the following Courses:**

- ENEL697 - Digital Image Processing  
**AND** MDSC689.02 - Advanced Magnetic Resonance Imaging  
**AND** MDSC689.03 - Advanced Medical Image Processing  
**AND** MDSC689.11 - Medical Imaging Applications  
**AND** MDSC689.99 - Medical Imaging Project
- [ENME619 Special Problems.36](#)
- Neuroscience 5850 at The University of Lethbridge
- Other Medical Imaging-related graduate courses with prior approval of specialization and graduate program

**Additional Comments:**

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process. See Advanced Credit for further information.

## Credit For Undergraduate Courses

Credit (in the specialization) will not be given for 500-level courses.

## Time Limit, Supervisory Assignments and Required Examinations

See requirements of home program.

## Research Proposal Requirements

Research proposal must be on a Medical Imaging topic and fit into a research area broadly defined by the Specialization (see [website](#) for information).

Image Acquisition and Reconstruction - Development of algorithms suitable for accurate imaging using existing technologies (e.g., MR, CT) and emerging methods (e.g., microwaves).

Signal Processing for Information Synthesis - Development of robust strategies for the assessment of brain and other organ function via advanced signal processing.

Quantitative Imaging and Analysis - Development of software engineering approaches, validation and testing for the creation of resilient methods for quantitative imaging.

A copy of the proposal must be provided to the specialization office within 12 months of starting the program.

In programs that do not require submission of a research proposal, a suitable proposal should be developed by the student within 12 months of starting the specialization, approved by the supervisor and supervisory committee (where appropriate), and submitted to the Specialization office.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

See home program. Additional funding may be available through the specialization or other University sources for well-qualified students.

## Overview

### General Program Information

## Postgraduate (Residency)

The Cumming School of Medicine offers various postgraduate (residency) programs that are only available to those with professional MD training. Full details can be found on the Cumming School of Medicine Postgraduate Medical Education website at [cumming.ucalgary.ca/pgme](http://cumming.ucalgary.ca/pgme).

## Admissions

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

Completion Requirement

##### Academic Requirements

Students registered in the Public Health Preventive Medicine (COMM) or Public Health Family Medicine (PHFM) Residency Program must complete a minimum of 21 units, as described below.

### Mandatory Courses

Earn at least 21 credits from the following:

- MDCH600 - Introduction to Community Health Sciences
- MDCH610 - Biostatistics I: Essentials of Biostatistics
- MDCH640 - Fundamentals of Epidemiology

### Option Courses

Students must complete a minimum of 12 units selected from graduate courses offered in Community Health Sciences, or other relevant graduate courses as approved by the PHPM Program Director.

#### Additional Comments:

### Course Registration

The Postgraduate Medical Education Office will register all new and ongoing students in residency programs with the Registrar's Office. Payment of fees is the responsibility of the student. Information is available through the Online Student Portal via MyUofC web portal. No specific course registration is required for postgraduate medical education except in the following circumstances:

Individuals registered in the Public Health Preventive Medicine (COMM) or Public Health Family Medicine (PHFM) Residency Program may register in a maximum of 24 units (8 3-unit courses) of graduate credit courses at no additional charge. As outlined above, these comprise three mandatory courses and five courses selected based on future career plans.

All other individuals registered in postgraduate (residency) training who wish to complete graduate courses must register and pay applicable tuition fees.

Any individual pursuing postgraduate (residency) training that wishes to register for a Master's or PhD degree must register with the Faculty of Graduate Studies and pay the applicable tuition fees.

# Earth, Energy, and Environment; Department of Department

The Department of Earth, Energy, and Environment is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Earth, Energy, and Environment](#).

## Programs

### Overview

#### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Program vs Faculty Regulations**

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

**Courses Constituting the Field of Environmental Science with a Concentration in Geoscience**

**Type**

Completion Requirement

**Courses Constituting the Field of Environmental Science with a Concentration in Geoscience**

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Geoscience while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Major Program with a Concentration in Geoscience**

**Earn at least 93 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 9 units - Chemistry 201 or 211; 203 or 213; and 321
- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geology 337
- 9 units - Geology 401, 403, and 505
- 3 units - Geography 380
- 9 units - Mathematics 211 or 213; and 249 or 265 or 275; and 267 or 277
- 3 units - Physics 211 or 221
- 3 units - Statistics 327 or Biology 315
- 3 units - Computer Science 217, 231 or Data Science 211
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Science 311

**Required Options - Major Program with a Concentration in Geoscience**

**Earn at least 27 credits from the following:**

- 6 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts

- 15 units - Options

**Note:** For students seeking to apply for registration with APEGA, 15 Units of Options should be from the Field of Geology. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

## Additional Comments:

### Program Sequence

#### Type

Completion Requirement

#### Additional Comments:

#### Recommended Program Sequence for the Geology Concentration

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geology Concentration.

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

Double major programs are allowed combining any two of: (i) Geology or Geology (Petroleum Geology Concentration), (ii) Applied and Environmental Geology, (iii) Geophysics, (iv) Earth Science, (v) Environmental Science (Geology).

Double degree programs are allowed combining Geophysics with one of (i) Geology, (ii) Geology (Petroleum Geology Concentration), (iii) Applied and Environmental Geology, (iv) Environmental Science (Geology).

## Additional Comments:

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

##### Completion Requirement

#### Additional Comments:

#### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

##### Type

## Completion Requirement

### Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Geoscience while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

## Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Required Courses - Honours Degree with a Concentration in Geoscience

#### Earn at least 93 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 9 units - Chemistry 201 or 211; 203 or 213; and 321
- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geology 337
- 9 units - Geology 201, 202 and 343
- 3 units - Geography 380
- 9 units - Mathematics 211 or 213; and 249 or 265 or 275; and 267 or 277
- 3 units - Physics 211 or 221
- 3 units - Statistics 327 or Biology 315
- 3 units - Computer Science 217, 231 or Data Science 211
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Science 311

#### Required Options - Honours Degree with a Concentration in Geoscience

**Note:** Students seeking to apply for registration with APEGA should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

#### Earn at least 27 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Geology
- 6 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 9 units - Options

## Additional Comments:

## Program Sequence

### Type

### Completion Requirement

## Additional Comments:

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geology Concentration.

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Double major programs are allowed combining any two of: (i) Geology or Geology (Petroleum Geology Concentration), (ii) Applied and Environmental Geology, (iii) Geophysics, (iv) Earth Science, (v) Environmental Science (Geology).

Double degree programs are allowed combining Geophysics with one of (i) Geology, (ii) Geology (Petroleum Geology Concentration), (iii) Applied and Environmental Geology, (iv) Environmental Science (Geology).

### Additional Comments:

## Overview

### General Program Information

The MSc program may be taken on a part-time basis with consent of the Department.

Within the course-based Master of Science degree, an Interdisciplinary Specialization in Reservoir Characterization is offered. See [Reservoir](#).

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/geoscience-master-science-course-based>.

In addition to Faculty of Graduate Studies **admission** requirements and Faculty of Science requirements, the Department requires:

## UCalgary

- a) Normally, a four-year Bachelor of Science degree or equivalent. An Honours degree in geology or geophysics, or a field related to geophysics, such as physics or mathematics, is preferred.
- b) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- c) For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies [requirements](#) and the Faculty of Science requirements, the Department requires:

Completion of a minimum of 27 units of coursework, which must include:

a) [GLGY670 Independent Study](#) or [GOPH675 Independent Study](#); and

b) 24 units of elective Geoscience courses (GLGY or GOPH):

- At least 12 of 24 units must be from 600- or 700-level courses.
- Up to 12 units of appropriate courses from another department may be substituted for Geoscience electives, subject to program approval.

Full-time students are normally expected to provide their own financial support and pay tuition and fees as outlined in the graduate student calendar since the department does not normally offer financial support to course-based Master of Science students.

Part-time students may be working in the field of Geology and/or Geophysics. An industrial supervisor can agree to work with the academic supervisor in the Department to supervise and evaluate the student's research project.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for [advanced credit](#) should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

The total of advanced credit and transfer credit in course-based Master's programs will generally not exceed either one-third of the program or 12 units, whichever is less.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Expected completion time is two years for full-time students in a course-based master's program. Maximum completion time is six years.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

No financial support will be given to students enrolled in the course-based master's program.

## Overview

### General Program Information

The MSc program may be taken on a part-time basis with consent of the Department.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geoscience-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Science requirements, the Department requires:

- a) Normally, a four-year Bachelor of Science degree or equivalent. An Honours degree in geology or geophysics, or a field related to geophysics, such as physics or mathematics, is preferred.
- b) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- c) For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Science requirements, the Department requires:

Completion of a minimum of 12 units.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for **advanced credit** should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Expected completion time is two years for students in thesis-based master's degree programs. Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Upon admission into a thesis-based program, a student is assigned an interim supervisor by the Graduate Program Director, either based on prior communication between the student and a prospective supervisor, or chosen from the research field the student has specified. A permanent supervisor (usually the interim supervisor) is normally appointed within two months.

### Research Proposal Requirements

Master of Science thesis-based students must file a thesis proposal by March 1 of the second session of study for September registrants and July 1 for January registrants. The thesis proposal must not be more than five pages of text long and include an abstract and a list of references cited in the text. The supervisor will assess the proposal in detail.

## Required Examinations

### Thesis Examination

Master of Science thesis-based students have final thesis oral examinations that are open to the public, with a public presentation on the same day.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must have complete applications submitted to the Department by January 15.

## Overview

### General Program Information

The PhD program may be taken on a part-time basis with consent of the Department.

Location: Science A Building, Room 229

Email address: [mailto:sci.grad@ucalgary.ca](mailto:mailto:sci.grad@ucalgary.ca)

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geoscience-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Science [requirements](#), the Department requires:

- Normally, a Master of Science degree or equivalent in geoscience or a field related to geoscience, such as physics or mathematics.
- A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.

d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

- Completion of a minimum of 12 units in the first year of the program.

Subject to supervisor and Graduate Program Director approval, this requirement may be waived fully or partially, or course exemptions may be granted on the basis of comparable courses taken during a master's program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for [advanced credit](#) should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Expected completion time is three or four years for doctoral students. Maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Upon admission into a thesis-based program, a student is assigned an interim supervisor by the Graduate Program Director, either based on prior communication between the student and a prospective supervisor, or chosen from the research field the student has specified. A permanent supervisor (usually the interim supervisor) is normally appointed within two months. Supervisory committees for doctoral students are selected by consultation between the permanent supervisor and the student.

### Research Proposal Requirements

PhD students will submit a more substantial thesis research proposal within 18 months of registration. The thesis proposal will be judged a pass or fail by the Supervisory Committee. The thesis research proposal must be passed before the FOS oral examination can be scheduled. Details about the thesis research proposal and the Department of Geoscience's Doctoral Candidacy Requirements can be found at <https://science.ucalgary.ca/earth/current-students/graduate/procedures-policies-and-forms>.

### Required Examinations

#### Candidacy

Doctoral students have a two-hour Field of Study (FOS) oral candidacy examination that must be completed by the twenty-eighth month of the program. The FOS oral examination cannot be attempted until the written thesis research proposal has been passed by the Supervisory Committee.

Questions on the research proposal may be included in the FOS oral candidacy examination. Details of the Department of Geoscience's Doctoral Candidacy Requirements can be found at <https://science.ucalgary.ca/earth/current-students/graduate/procedures-policies-and-forms>.

#### Thesis Examination

Master of Science thesis-based and doctoral students have final thesis oral examinations that are open to the public, with a public presentation on the same day.

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must have complete applications submitted to the Department by January 15.

## Overview

### General Program Information

**Department Office:** Earth Sciences 118

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/earth](http://science.ucalgary.ca/earth)

## Admissions

### Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

### Simple Requisites

#### Faculty of Science Minor Program Regulations

##### Type

Completion Requirement

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Geology

##### Type

Completion Requirement

Courses Constituting the Field of Geology

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Geology

**Additional Comments:**

#### Required Courses - Minor Program

##### Type

Completion Requirement

Required Courses - Minor Program

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Geology

**Additional Comments:**

## Overview

# UCalgary

## General Program Information

Department Office: Earth Sciences 118

Telephone: 403.220.8600

Website: [science.ucalgary.ca/earth](http://science.ucalgary.ca/earth)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Program Enrolment Limits

1. The Department of Earth, Energy, and Environment limits enrolment in all programs. Students may be directly admitted into the Geology or Geophysics programs. Students may also apply to transfer into the Geology (Petroleum Geology Concentration) program after completion of 30 units. As space permits, the Department will accept a certain number of students who wish to gain admission to the Department's programs by transferring from other institutions or programs. Any student requesting admission at this level is subject to section [A.5](#) of the Admissions section of this Calendar. In the event that the number of students choosing any of these programs exceeds the number that can be accommodated by available resources, students will be admitted to that program in descending rank order of academic performance until the enrolment limit is reached.
2. Admission will be granted for Fall Term only and will be based upon academic merit. Due to limited enrolment capacity in many senior courses, it may not always be possible to accommodate every student's choice of optional geology courses in the third and subsequent years.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Earth, Energy, and Environment are governed by a combination of general Faculty of Science regulations and the additional program specific regulations stated in the following sections.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being

met. Also, students are strongly urged to consult with the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## APEGA Requirements

The practice of geology and geophysics in Alberta is governed by Provincial law and regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

In order to meet the requirements of professional registration, specific academic training and four years of appropriate full-time experience as a geologist- or geophysicist-in-training following graduation are needed.

The Majors and Honours BSc programs in [Geology](#), Geology (Petroleum Geology Concentration), and [Geophysics](#), whose course requirements are stipulated in Program Details, with the exception of Environmental Science - Geology Concentration, meet the current academic requirements for professional registration with APEGA, if the appropriate options are taken (see the Notes in the Required Courses subsections in Program Details for [Geology](#), Geology (Petroleum Geology Concentration), and [Geophysics](#), with the exception of Environmental Science - Geology Concentration). These academic requirements are available on the APEGA website: [apega.ca](http://apega.ca), and on the Department website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#).

## Course Enrolment Limitations

Many of the second-, third- and fourth-year courses in Geology and Geophysics are limited-enrolment courses, and priority for enrolment is given to students registered in one of the following programs: Geology, Geology (Petroleum Geology Concentration), Geophysics, Environmental Science (Geology Concentration), Natural Sciences (Geoscience Concentration), Earth Science.

## Courses Constituting the Field of Geology

### Type

Completion Requirement

#### Courses Constituting the Field of Geology

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Geology while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Geology

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Program

#### Earn at least 54 credits from the following:

- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geography 380
- 3 units - Geology 337
- 3 units - Geology 435, 441, 537, 545 or Geophysics 549
- 6 units - Chemistry 201 or 211; and 203 or 213
- 3 units - Computer Science 217, 231 or Data Science 211
- 3 units - Mathematics 211
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Physics 211 or 221
- 3 units - Science 311

- 3 units - Statistics 321 or 327

#### Required Options - Major Program

##### Earn at least 66 credits from the following:

- 9 units - Options from the Field of Geology at the 300 level or higher
- 9 units - Options from the Field of Geology at the 500 level or higher
- 6 units - Science Options
- 6 units - Geology, Geophysics or Engineering (GGE) options
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 3 units - Non-Major Field Requirement: Options outside of the Field of Geology
- 18 units - Options

Note: The Major program in Geology is designed so that students can meet the current academic requirements for professional registration with APEGA. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

#### Geology Program Streams\*

Students may focus their studies by following the **Hydrogeology/Environmental Geoscience** stream or the **Solid Earth Geoscience** stream. This entails choosing appropriate options, as outlined in the Required Courses – Major Program Section. More information can be found on the Department of Geoscience website: [BSc-Geology-concentration-and-streams.pdf \(ucalgary.ca\)](https://www.ucalgary.ca/geoscience/undergraduate/streams/).

*\*A stream is not a separate program, but rather a route or a suggested sequence of courses within the Geology program that students should take to focus their studies in a certain area.*

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### Recommended Program Sequence for the BSc in Geology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties

- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

General Program Information

Department Office: Earth Sciences 118

Telephone: 403.220.8600

Website: [science.ucalgary.ca/earth](https://science.ucalgary.ca/earth)

## Admissions

Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

Simple Requisites

### Faculty Requirements

Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

### Department Regulations

Type

Completion Requirement

**Additional Comments:**

**Department vs. Faculty Regulations**

Programs in the Department of Earth, Energy, and Environment are governed by a combination of general Faculty of Science regulations and the additional program specific regulations stated in the following sections.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) at all stages of their program.

## APEGA Requirements

The practice of geology and geophysics in Alberta is governed by Provincial law and regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

In order to meet the requirements of professional registration, specific academic training and four years of appropriate full-time experience as a geologist- or geophysicist-in-training following graduation are needed.

The Majors and Honours BSc programs in Geology, Geology (Petroleum Geology Concentration), and Geophysics, whose course requirements are stipulated in [Program Details](#), with the exception of Environmental Science - Geology Concentration, meet the current academic requirements for professional registration with APEGA, if the appropriate options are taken (see the Notes in the Required Courses, with the exception of Environmental Science - Geology Concentration). These academic requirements are available on the APEGA website: [apega.ca](http://apega.ca), and on the Department website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#).

## Course Enrolment Limitations

Many of the second-, third- and fourth-year courses in Geology and Geophysics are limited-enrolment courses, and priority for enrolment is given to students registered in one of the following programs: Geology, Geology (Petroleum Geology Concentration), Geophysics, Environmental Science (Geology Concentration), Natural Sciences (Geoscience Concentration), Earth Science.

## Courses Constituting the Field of Geology

### Type

Completion Requirement

#### Courses Constituting the Field of Geology

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Geology while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Geology

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

#### Earn at least 54 credits from the following:

- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geography 380
- 3 units - Geology 337
- 3 units - One of Geology 435, 441, 537, 545 or Geophysics 549
- 6 units - Chemistry 201 or 211; and 203 or 213
- 3 units - Computer Science 217, 231 or Data Science 211
- 3 units - Mathematics 211
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Physics 211 or 221
- 3 units - Science 311

- 3 units - Statistics 321 or 327

#### Required Options - Honours Program

##### Earn at least 66 credits from the following:

- 15 units - From the Field of Geology at the 300 level or higher
- 9 units - Earth 570 or 580 and Field of Geology at the 500 level or above
- 6 units - Geology, Geophysics or Engineering (GGE) options
- 6 units - Science Options
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 15 units - Options

Note: The Honours program in Geology is designed so that students can meet the current academic requirements for professional registration with APEGA. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

#### Geology Program Streams\*

Students may focus their studies by following the Hydrogeology/Environmental Geoscience stream or the Solid Earth Geoscience stream. This entails choosing appropriate options, as outlined in the Required Courses – Major Program Section. More information can be found on the Department of Geoscience website: [BSc-Geology-concentration-and-streams.pdf \(ucalgary.ca\)](https://ucalgary.ca/BSc-Geology-concentration-and-streams.pdf).

*\*A stream is not a separate program, but rather a route or a suggested sequence of courses within the Geology program that students should take to focus their studies in a certain area.*

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### Recommended Program Sequence for the BSc Honours in Geology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science

- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

Additional Comments:

## Overview

General Program Information

Department Office: Earth Sciences 118

Telephone: 403.220.8600

Website: [Department of Earth, Energy, and Environment](#) | [Faculty of Science](#) | [University of Calgary](#) | [University of Calgary \(ucalgary.ca\)](#)

## Admissions

Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

Simple Requisites

### Faculty of Science Minor Program Regulations

Type

Completion Requirement

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

Additional Comments:

### Courses Constituting the Field of Geophysics

Type

Completion Requirement

Courses Constituting the Field of Geophysics

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Geophysics

Additional Comments:

### Required Courses - Minor Program

Type

Completion Requirement

## Required Courses - Minor Program

### Earn at least 30 credits from the following:

- 9 units - Earth 210, 340, and 360
- 3 units - Geography 380
- 6 units - Physics 211 or 221; and 223
- 12 units - Chosen from Geophysics 355, 419, 420, 457, 517, 547, 549, 551, 557, 565 or 559, Physics 321 or 323

Mathematics and Physics prerequisites for the preceding courses as needed.

### Additional Comments:

## Overview

### General Program Information

Department Office: Earth Sciences 118

Telephone: 403.220.8600

Website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Program Enrolment Limits

1. The Department of Earth, Energy, and Environment limits enrolment in all programs. Students may be directly admitted into the Geology or Geophysics programs. Students may also apply to transfer into the Geology (Petroleum Geology Concentration) program after completion of 30 units. As space permits, the Department will accept a certain number of students who wish to gain admission to the Department's programs by transferring from other institutions or programs. Any student requesting admission at this level is subject to section [A.5](#) of the Admissions section of this Calendar. In the event that the number of students choosing any of these programs exceeds the number that can be accommodated by available resources, students will be admitted to that program in descending rank order of academic performance until the enrolment limit is reached.
2. Admission will be granted for Fall Term only and will be based upon academic merit. Due to limited enrolment capacity in many senior courses, it may not always be possible to accommodate every student's choice of optional geology courses in the third and subsequent years.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Department Regulations

##### Department vs. Faculty Regulations

Programs in the Department of Earth, Energy, and Environment are governed by a combination of general Faculty of Science regulations and the additional program specific regulations stated in the following sections.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) at all stages of their program.

##### APEGA Requirements

The practice of geology and geophysics in Alberta is governed by Provincial law and regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

In order to meet the requirements of professional registration, specific academic training and four years of appropriate full-time experience as a geologist- or geophysicist-in-training following graduation are needed.

The Majors and Honours BSc programs in Geology, Geology (Petroleum Geology Concentration), and Geophysics, whose course requirements are stipulated in Program Details, with the exception of Environmental Science - Geology Concentration, meet the current academic requirements for professional registration with APEGA, if the appropriate options are taken (see the Notes in the Required Courses subsections in Program Details, with the exception of Environmental Science - Geology Concentration). These academic requirements are available on the APEGA website: [apega.ca](http://apega.ca), and on the Department website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#).

##### Course Enrolment Limitations

Many of the second-, third- and fourth-year courses in Geology and Geophysics are limited-enrolment courses, and priority for enrolment is given to students registered in one of the following programs: Geology, Geology (Petroleum Geology Concentration), Geophysics, Environmental Science (Geology Concentration), Natural Sciences (Geoscience Concentration), Earth Science.

## Additional Comments:

### Courses Constituting the Field of Geophysics

#### Type

Completion Requirement

#### Courses Constituting the Field of Geophysics

Students must successfully complete a minimum of 54 units, to a maximum of 66 units, in Courses Constituting the Field of Geophysics while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Geophysics

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Major Program**

**Earn at least 63 credits from the following:**

- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geography 380
- 3 units - Geophysics 549
- 6 units - Chemistry 201 or 211; and 203 or 213
- 3 units - Computer Science 217 or 231 or 235 or Data Science 211
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 12 units - Physics 211 or 221, 223, 321, 323
- 3 units - Science 311
- 3 units - Statistics 321 or 327

**Required Options - Major Program**

**Earn at least 57 credits from the following:**

- 6 units - From the Field of Geophysics at the 300 level or higher
- 9 units - From the Field of Geophysics at the 500 level or higher
- 6 units - Science or Engineering options
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 9 units - Non-Major Field Requirement: Options outside of the Field of Geophysics
- 12 units - Options

**Note:** The Majors program in Geophysics is designed so that students can meet the current academic requirements for professional registration with APEGA. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

**Additional Comments:**

**Program Sequence**

**Type**

Completion Requirement

**Additional Comments:**

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

**Degree Options**

**Type**

## Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

### Additional Comments:

## Overview

### General Program Information

Department Office: Earth Sciences 118

Telephone: 403.220.8600

Website: [science.ucalgary.ca/geoscience](http://science.ucalgary.ca/geoscience)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Program Enrolment Limits

1. The Department of Earth, Energy, and Environment limits enrolment in all programs. Students may be directly admitted into the Geology or Geophysics programs. Students may also apply to transfer into the Geology (Petroleum Geology Concentration) program after completion of 30 units. As space permits, the Department will accept a certain number of students who wish to gain admission to the Department's programs by transferring from other institutions or programs. Any student requesting admission at this level is subject to section [A.5](#) of the Admissions section of this Calendar. In the event that the number of students choosing any of these programs exceeds the number that can be accommodated by available resources, students will be admitted to that program in descending rank order of academic performance until the enrolment limit is reached.
2. Admission will be granted for Fall Term only and will be based upon academic merit. Due to limited enrolment capacity in many senior courses, it may not always be possible to accommodate every student's choice of optional geology courses in the third and subsequent years.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

## Department Regulations

### Type

Completion Requirement

Department Regulations

### Department vs. Faculty Regulations

Programs in the Department of Earth, Energy, and Environment are governed by a combination of general Faculty of Science regulations and the additional program specific regulations stated in the following sections.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) at all stages of their program.

### APEGA Requirements

The practice of geology and geophysics in Alberta is governed by Provincial law and regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

In order to meet the requirements of professional registration, specific academic training and four years of appropriate full-time experience as a geologist- or geophysicist-in-training following graduation are needed.

The Majors and Honours BSc programs in Geology, Geology (Petroleum Geology Concentration), and Geophysics, whose course requirements are stipulated in Program Details, with the exception of 4.4.4 Environmental Science - Geology Concentration, meet the current academic requirements for professional registration with APEGA, if the appropriate options are taken (see the Notes in the Required Courses subsections in Program Details, with the exception of 4.4.4 Environmental Science - Geology Concentration). These academic requirements are available on the APEGA website: [apega.ca](http://apega.ca), and on the Department website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#).

### Course Enrolment Limitations

Many of the second-, third- and fourth-year courses in Geology and Geophysics are limited-enrolment courses, and priority for enrolment is given to students registered in one of the following programs: Geology, Geology (Petroleum Geology Concentration), Geophysics, Environmental Science (Geology Concentration), Natural Sciences (Geoscience Concentration), Earth Science.

**Additional Comments:**

## Courses Constituting the Field of Geophysics

### Type

Completion Requirement

Courses Constituting the Field of Geophysics

Students must successfully complete a minimum of 63 units, to a maximum of 78 units, in Courses Constituting the Field of Geophysics while fulfilling the Program Requirements.

Earn at least 63 credits from the following:

- Courses Constituting the Field of Geophysics

Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

**Note:** The Honours program in Geophysics is designed so that students can meet the current academic requirements for professional registration with APEGA. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

Earn at least 63 credits from the following:

- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geography 380
- 3 units - Geophysics 549
- 6 units - Chemistry 201 or 211; and 203 or 213
- 3 units - Computer Science 217 or 231 or 235 or Data Science 211
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 12 units - Physics 211 or 221, 223, 321, 323
- 3 units - Science 311
- 3 units - Statistics 321 or 327

#### Required Options - Honours Program

Earn at least 57 credits from the following:

- 6 units - From the Field of Geophysics at the 300 level or higher
- 9 units - Earth 570 or 580 and Field of Geology at the 500 level or above
- 6 units - Science or Engineering options
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 21 units - Options

Additional Comments:

## Program Sequence

### Type

Completion Requirement

Additional Comments:

#### Recommended Program Sequence for the BSc Honours in Geophysics

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Reservoir Characterization to students registered in an existing course-based master's program in the Departments of Chemical and Petroleum Engineering or Geoscience. The program integrates reservoir engineering, geology, geophysics, and reservoir characterization. The student will receive the degree offered by the home program:

- Master of Engineering in Chemical and Petroleum Engineering (MEng)
- Master of Science in Geoscience (MSc)

All students will normally be considered to have full-time status. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Director.

Geoscientists should contact the Department of Geoscience and engineers should contact the Department of Chemical and Petroleum Engineering for further information.

### Department of Chemical and Petroleum Engineering

Location: Schulich School of Engineering, Room B202

Program number: 403.220.4802

Fax: 403.284.4852

Email Address: <mailto:chemandpetenggrad@ucalgary.ca>

Web page URL: <http://schulich.ucalgary.ca/departments/chemical-and-petroleum-engineering>

### Department of Geoscience

Location: Earth Sciences 118

Program number: 403.220.3254

Fax: 403.284.0074

Email Address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

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## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website:

Master of Engineering in Chemical and Petroleum Engineering (MEng): <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-meng-course>.

Master of Science in Geoscience (MSc): <https://grad.ucalgary.ca/future-students/explore-programs/geoscience-msc-course>.

In addition to Faculty of Graduate Studies **admission** requirements, all applicants must meet the minimum standards of the home program.

Acceptance into the Master of Engineering program would normally require the completion of the equivalent of the Bachelor of Science in Oil and Gas Engineering degree offered by the University of Calgary. However, individuals with more diverse background and industry experience may be considered for admission.

Acceptance into the Master of Science program requires the completion of a Bachelor of Science in Geoscience plus a course in Well Logging and Formation Evaluation such as Petroleum Engineering 507 at the University of Calgary, or equivalent.

Applicants with an undergraduate degree in geology must demonstrate acceptable proficiency in mathematics. It is an asset for geologists to have taken additional mathematics courses as technical electives during their undergraduate degree.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

To address the broad background of students entering the Reservoir Characterization Interdisciplinary Specialization, there are three streams for completion: Engineering, Geology or Geophysics.

In addition to Faculty of Graduate Studies ([see regulations](#)) and the home program requirements, the Specialization requires:

All students must take at least six courses at the 600 and/or 700 level.

**Students in Engineering are required to take:**

**Complete ALL of the following Courses:**

- GOPH559 - Imaging, Inversion, and Interpretation of Geophysical Data  
**AND** ENCH621 - Reservoir Simulation  
**AND** ENCH661 - Geostatistics for Reservoir Characterization  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which **MUST** be Geology or Geophysics:

**Complete ANY of the following Courses:**

- ENPE543 - Geological Characterization of Oil and Gas Reservoirs

**OR ENCH619 - Special Problems**  
**OR ENCH649 - Naturally Fractured Reservoirs**  
**OR ENCH657 - Advanced Reservoir Engineering**  
**OR GLGY647 - Geology Well Log Applications**  
**OR GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy**  
**OR GLGY699 - Selected Topics in Geology**  
**OR GOPH667 - Introduction to Passive Seismic Monitoring**  
**OR GOPH671 - Inverse Theory & Applications I**

\*ENCH 619.63

\*GLGY 699.76

**Students in Geology are required to take:**

**Complete ALL of the following Courses:**

- ENPE523 - Introduction to Reservoir Engineering  
**AND ENCH621 - Reservoir Simulation**  
**AND OBHR668 - Seminar in the Management of Human Resources**
- ENCH698 - Reservoir Characterization for Field Development  
**AND GLGY698 - (ENCH698)Reservoir Characterization for Field Development**
- ENCH661 - Geostatistics for Reservoir Characterization  
**OR GLGY697 - Advanced Geostatistics**

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which **MUST** be Engineering:

**Complete ANY of the following Courses:**

- ENPE525 - Waterflooding and Enhanced Oil Recovery  
**OR ENPE533 - Petroleum Production Engineering**  
**OR ENPE543 - Geological Characterization of Oil and Gas Reservoirs**  
**OR ENCH619 - Special Problems**  
**OR ENCH629 - Secondary & Tertiary Recovery**  
**OR ENCH649 - Naturally Fractured Reservoirs**  
**OR ENCH657 - Advanced Reservoir Engineering**  
**OR ENCH687 - Petroleum Economics**  
**OR GOPH667 - Introduction to Passive Seismic Monitoring**  
**OR GLGY647 - Geology Well Log Applications**  
**OR GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy**  
**OR GLGY699 - Selected Topics in Geology**  
**OR GOPH559 - Imaging, Inversion, and Interpretation of Geophysical Data**

\*ENCH 619.63

\*GLGY 699.76

**Students in Geophysics are required to take:**

**Complete ALL of the following Courses:**

- ENPE523 - Introduction to Reservoir Engineering  
**AND** ENCH621 - Reservoir Simulation  
**AND** ENCH661 - Geostatistics for Reservoir Characterization  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which MUST be Engineering:

**Complete ANY of the following Courses:**

- ENPE525 - Waterflooding and Enhanced Oil Recovery  
**OR** ENPE533 - Petroleum Production Engineering  
**OR** ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH611 - Advanced Well Test Analysis (Inactive)  
**OR** ENCH629 - Secondary & Tertiary Recovery  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering  
**OR** ENCH687 - Petroleum Economics  
**OR** GOPH667 - Introduction to Passive Seismic Monitoring  
**OR** GLGY647 - Geology Well Log Applications  
**OR** GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy  
**OR** GLGY699 - Selected Topics in Geology

\*ENCH 619.63

\*GLGY 699.76

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

#### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### Time Limit

Expected completion time is two years and maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

**Additional Comments:**

### **Supervisory Assignments**

Supervisors will be approved by the specialization Graduate Program Director.

### **Required Examinations**

After the conclusion of the Capstone Project, there will be a comprehensive oral examination of each student before an examining committee that includes a faculty member from each of the three disciplines. Each student will be expected to express in-depth knowledge in their area of expertise (Engineering, Geology, Geophysics), and to have a comprehensive knowledge of the significance of the other two areas in successful reservoir characterization.

### **Financial Assistance**

#### **Type**

Completion Requirement

#### **Additional Comments:**

For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

## **Economics; Department of Department**

The Department of Economics is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Economics](#).

## **Programs**

### **Overview**

General Program Information

### **Contact Information**

Website: [arts.ucalgary.ca/economics](https://arts.ucalgary.ca/economics)

### **For Program Advice**

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## **Admissions**

### **Program Admissions Information**

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## **Program Details**

### **Simple Requisites**

Faculty of Arts Requirements

## Type

Completion Requirement

Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

## Courses Constituting the Field of Economics

### Type

Completion Requirement

Courses Constituting the Field of Economics

Students must successfully complete 36 units from Courses Constituting the Field of Economics including those listed in Program Requirements.

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Economics

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Specified Courses - Minor Program

**Earn at least 36 credits from the following:**

- Required Courses: 27 units Economics 201, 203, 301, 303, 357, 359, 395, 427 and 493
- Applied Energy Economics Options: 9 units from Economics 323, 328, 329, 377, 399\*, 429, 457, 475, 477, 487, 499\*, 527, 538, 599\*.

*\*May be used when the topic is appropriate.*

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: <https://arts.ucalgary.ca/economics>

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Requirement

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Economics

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Economics while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Economics

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Required Options - Minor Program

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Economics
- A minimum 18 units at the 300 level or above.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/economics](https://arts.ucalgary.ca/economics)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising)

The Department of Economics offers instruction in the Field of Economics. The BA Honours program is recommended for students planning to pursue a graduate degree in economics and for those who seek an enriched understanding of the subject at the undergraduate level.

## Introduction

Economics is the systematic study of the logic of choice and human action under conditions of scarcity. Its concern is with how economic activity—the production, consumption, and trade of goods and services—is organized when resources are scarce. It seeks to develop an understanding of how individuals should, and do, make decisions, how societies structure economic activity, and the relative effectiveness of different institutions in relaxing, or mitigating, scarcity constraints. There are two primary focuses of economic inquiry: (i) understanding the strengths and limitations of markets relative to alternative institutions and (ii) understanding demand for the use of the government's monopoly on the legal use of coercion and the potential effects of its exercise.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Economics) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Economics

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of

Economics while fulfilling the Program Requirements.

**Complete ALL of the following Requirement Sets:**

- Courses Constituting the Field of Economics

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 21 credits from the following:**

- Core: 21 units Economics 201, 203, 301, 303, 357, 359 and 395

Major-Field - Required Options

- *Upper-Level Courses:* 12 units from the Field of Economics at the 400 or 500 level.
- *Economics Options:* An additional 9 units from the Field of Economics.

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of Economics

Other Requirements

**Earn at least 9 credits from the following:**

- Mathematics Requirement: Mathematics 249 or 265
- Statistics Requirement: 6 units Statistics 213 and 217

**Additional Comments:**

## Concentration in Applied Energy Economics

### Type

Completion Requirement

Concentration in Applied Energy Economics

The program provides the historical and institutional background and the basic tools necessary for an understanding of the operation of North American and world energy markets, including development of analytical and problem-solving skills.

This Concentration is available only to students pursuing a Degree in Economics. In addition to the requirements for the BA or Honours BA in Economics, students must meet the additional following requirements:

**Earn at least 24 credits from the following:**

- Required Courses: 9 units Economics 427, 493, and Physics 371
- Applied Energy Economics Options: 18 units from Economics 323, 328, 329, 377, 399\*, 429, 453, 457, 475, 477, 487, 495, 499\*, 527, 538, 599\*

*\*May be used when the topic is appropriate.*

**Additional Comments:**

## Degree Options

### Type

## Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/economics](https://arts.ucalgary.ca/economics)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising)

The Department of Economics offers instruction in the Field of Economics. The BA Honours program is recommended for students planning to pursue a graduate degree in economics and for those who seek an enriched understanding of the subject at the undergraduate level.

## Introduction

Economics is the systematic study of the logic of choice and human action under conditions of scarcity. Its concern is with how economic activity—the production, consumption, and trade of goods and services—is organized when resources are scarce. It seeks to develop an understanding of how individuals should, and do, make decisions, how societies structure economic activity, and the relative effectiveness of different institutions in relaxing, or mitigating, scarcity constraints. There are two primary focuses of economic inquiry: (i) understanding the strengths and limitations of markets relative to alternative institutions and (ii) understanding demand for the use of the government's monopoly on the legal use of coercion and the potential effects of its exercise.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Economics) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

#### Additional Comments:

#### Courses Constituting the Field of Economics

##### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Economics while fulfilling the Program Requirements.

##### Earn at least 60 credits from the following:

- Courses Constituting the Field of Economics

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 60 credits from the following:

- Core: 21 units Economics 201, 203, 301, 303, 357, 359 and 395
- Honours Core: 18 units Economics 387, 389, 495, 497, 557 and 559

#### Major-Field - Required Options

- *Upper-Level Courses:* 9 additional units from the Field of Economics at the 400 or 500 level.
- *Economics Options:* An additional 12 units in the Field of Economics.

##### Complete ALL of the following Requirement Sets:

- Courses Constituting the Field of Economics

#### Other Requirements

##### Earn at least 12 credits from the following:

- Mathematics Requirement: 6 units (a) Mathematics 211 or 213; and (b) Mathematics 249 or 265

- Statistics Requirement: 6 units Statistics 213 and 217

**Additional Comments:**

**Concentration in Applied Energy Economics**

**Type**

**Completion Requirement**

**Concentration in Applied Energy Economics**

The program provides the historical and institutional background and the basic tools necessary for an understanding of the operation of North American and world energy markets, including development of analytical and problem-solving skills.

This Concentration is available only to students pursuing a Degree in Economics. In addition to the requirements for the BA or Honours BA in Economics, students must meet the additional following requirements:

**Earn at least 24 credits from the following:**

- Required Courses: 9 units Economics 427, 493, and Physics 371
- Applied Energy Economics Options: 18 units from Economics 323, 328, 329, 377, 399\*, 429, 453, 457, 475, 477, 487, 495, 499\*, 527, 538, 599\*

*\*May be used when the topic is appropriate.*

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

**Degree Options**

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

### General Program Information

There is a requirement of full-time study for the course-based Master of Arts program.

The work completed in the course-based Master of Arts program is considered equivalent to a major research project and is appropriate for students who intend to proceed to doctoral studies.

\*The MA, course-based is a continuous program with no scheduled break.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/economics-master-arts-course-based>.

In addition to Faculties of Graduate Studies [admission requirements](#) and Arts requirements, the Department requires:

- a) A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics [395/495/497](#) (econometrics), Economics [387/389](#) (mathematics for economists), Economics [557](#) (senior microeconomics), and Economics [559](#) (senior macroeconomics), with at least a "B" average in senior economics courses.
- b) International students must hold a four-year degree from a recognized institution. If you received your degree from a university outside Canada, please refer to the country-specific degree requirements: <http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements>.
- c) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

The departmental academic requirements for the course-based Master of Arts degree are comparable to those for the [thesis-based Master of Arts](#). The differences in the course-based program are:

- a) The thesis requirement is replaced by additional 12 units of graduate courses (making a total of 30 units).
- b) The maximal number of courses from a related discipline is increased to 9 units of the elective graduate courses in Economics.
- c) A research paper, which is considered equivalent to a major research project. The topic may be a limited empirical research project, a critical review of the literature in a particular area, or a critical analysis of a theoretical or important policy problem. This paper is completed through [ECON695 Research Methods III](#) and [ECON697 Research Methods IV](#).
- d) An exit requirement consisting of a research defence in an open conference (at the end of Economics 697) and if unsuccessful a comprehensive written examination.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Economics will not permit the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit is not given for undergraduate courses.

### Time Limit

Expected completion time for students studying on a full-time basis is one year for the Master of Arts course-based. Maximum completion time is four years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

There is a requirement of full-time study for the thesis-based Master of Arts program.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/economics-master-arts-thesis-based>.

In addition to Faculties of Graduate Studies **admission requirements** and Arts requirements, the Department requires:

- A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics **395/495/497** (econometrics), Economics **387/389** (mathematics for economists), Economics **557** (senior microeconomics), and Economics **559** (senior macroeconomics), with at least a "B" average in senior economics courses.
- International students must hold a four-year degree from a recognized institution. If you received your degree from a university outside Canada, please refer to the country-specific degree requirements: <http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements>.
- Three reference letters.

## Program Details

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

#### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) For students holding an Honours Economics degree with credits in Economics [387, 389, 395, 495, 497, 557, and 559](#) or their equivalents, the completion of 18 units of graduate-level Economics courses. Such students may be able to complete the degree in one year. In special cases the Department may allow students to substitute a maximum of 6 units from a related discipline for one of the elective graduate courses in Economics.

b) For students without an Honours Economics degree or students whose Honours degree in Economics does not include the undergraduate courses specified in (a) or their equivalents, the completion of such courses as are required to raise their competence to the appropriate level. Graduate course requirements for such students are the same as in (a). Such students may be able to complete the degree in two years.

c) The completion of [ECON615 Econometrics](#), [ECON657 Microeconomic Theory](#) and [ECON659 Macroeconomic Theory](#) unless one or more of them is explicitly exempted by the graduate program director.

Students, with the approval of the graduate program director, may replace Economics 615, 657 and 659 with [ECON705 Advanced Econometrics I/ECON715 Advanced Econometrics II](#), [ECON707 Adv Microeconomic Theory I/ECON757 Advanced Microeconomic Theory II](#) and [ECON709 Adv Macroeconomic Theory I/ECON759 Advanced Macroeconomics Theory II](#) respectively.

d) Successful completion and examination of the MA thesis (in accord with examination procedures of the Faculty of Graduate Studies).

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Economics will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit is not given for undergraduate courses.

### Time Limit

Expected completion time for students studying on a full-time basis is two years for the Master of Arts thesis-based. Maximum completion time is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

**Additional Comments:**

## **Supervisory Assignments**

The process by which students are matched with supervisors is an informal one, based on mutual research interest.

## **Research Proposal Requirements**

Information on research proposals is available from the interim advisor/grant mentor/supervisor.

## **Required Examinations**

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Department requires:

### **Thesis Examination**

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### **Financial Assistance**

#### **Type**

Completion Requirement

#### **Additional Comments:**

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

To be eligible for funding beyond the first year, a student must pass field of study exams in microeconomics and macroeconomics by the beginning of classes of their second year. To be eligible for funding beyond the Fall Term of the third year, a student must receive a passing grade on their second-year research paper and their oral thesis proposal by the beginning of Winter Term in their third year.

## **Overview**

### **General Program Information**

There is a requirement of full-time study for the doctoral program.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## **Admissions**

### **Program Admissions Information**

Deadline for submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/economics-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies [admission requirements](#) and Arts requirements, the Department requires:

- a) A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics [395/495/497](#) (econometrics), Economics [387/389](#) (mathematics for economists), [Economics 557](#) (senior microeconomics), and [Economics 559](#) (senior macroeconomics), with at least a “B” average in senior economics courses. Doctoral candidates may require greater proficiency in Mathematics.
- b) A Master of Arts degree in Economics or its equivalent, with a high level of proficiency in Microeconomic Theory, Macroeconomic Theory, and Econometrics. If courses have been taken more than five years ago, students may be required to upgrade their knowledge in these fields.
- c) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

The Department of Economics requires that doctoral students take 36 units. Required courses include two courses each in econometrics, [ECON705 Advanced Econometrics I](#) and [ECON715 Advanced Econometrics II](#), microeconomic theory, [ECON707 Adv Microeconomic Theory I](#) and [ECON757 Advanced Microeconomic Theory II](#), and macroeconomic theory, [ECON709 Adv Macroeconomic Theory I](#) and [ECON759 Advanced Macroeconomics Theory II](#). In addition, students must take 18 units in “field” areas. Doctoral students must also write and pass a second-year research paper prior to scheduling the Thesis Proposal Oral Examination. For further information see the website: <http://econ.ucalgary.ca/graduate/resources-current-students>.

Students are also recommended to take a non-credit one-week course in the Fall Session Block Week (the week prior to the start of classes) of the first year in Mathematical Economics.

The Department allows for the possibility that master's-level courses and course work taken at other institutions may be substituted for some of the required doctoral courses. Decisions concerning course substitutions and the transferability of graduate courses from other institutions are made on a case-by-case basis. Students are advised that the required comprehensive field of study exams in microeconomics, macroeconomics, and econometrics include material from the core courses listed above.

Graduate students must obtain a grade standing of “B” or better in graduate course work. A grade of “B-” or less will trigger a departmental review of the student's suitability for the graduate program and may result in a loss of funding.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Economics will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit is not given for undergraduate courses.

## Time Limit

Expected completion time for students studying on a full-time basis is five years for the Doctor of Philosophy. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The process by which students are matched with supervisors is an informal one, based on mutual research interest.

## Research Proposal Requirements

Information on research proposals is available from the interim advisor/grant mentor/supervisor.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for Candidacy and Thesis Examinations, the Department requires:

### Candidacy

Candidacy must be completed within 28 months from the program start date.

Admission to candidacy is an acknowledgement that a student is fully prepared to devote their full attention to the thesis research.

To enter into candidacy, students must: (1) successfully complete all required courses, (2) pass the microeconomics, macroeconomics and econometrics comprehensive field of study exams, (3) pass the second-year paper requirement, and (4) have their thesis proposal approved by the Supervisory Committee. For further information, please consult the Department of Economics website: <https://econ.ucalgary.ca/graduate/resources-current-students>.

Students who do not pass their candidacy requirements by the twenty-eighth month of their program may be required to withdraw from the program. A full description of all candidacy requirements is available at:

<https://econ.ucalgary.ca/graduate/resources-current-students>.

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

To be eligible for funding beyond the first year, a student must pass field of study exams in microeconomics and macroeconomics by the beginning of classes of their second year. To be eligible for funding beyond the Fall Term of the third year, a student must receive a passing grade on their second-year research paper and their oral thesis proposal by the beginning of Winter Term in their third year.

## Electrical & Software Engineering; Dept of Department

The Department of Electrical and Software Engineering is part of the Schulich School of Engineering.

For more information concerning undergraduate program regulations and requirements, refer to the [Schulich School of Engineering](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Electrical and Software Engineering](#).

### Programs

#### Overview

##### General Program Information

##### Specializations:

- Software Engineering\*
- [Environ En](#)
- [Energy&Env](#)
- [Energy&Env](#)

\*The Software Engineering specialization is a 12-month intensive program with no scheduled break.

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Electrical and Computer Engineering program (not available for Software Engineering).

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#### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.5732

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/electrical-software>

### Admissions

#### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website:

MEng (course-based): <http://www.ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-master-engineering-course-based>.

MEng (course-based) with specialization in Software Engineering: <https://ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-master-engineering-software-course-based>.

In addition to Faculty of Graduate Studies' [admission](#) requirements and the Schulich School of Engineering requirements, the Department requires:

#### Master of Engineering

- A four-year bachelor's degree in electrical engineering or computer or software engineering.
- Applicants with a four-year bachelor's degree in other disciplines may be considered but additional undergraduate courses in electrical engineering or computer or software engineering (as determined by the Graduate Program Director) may be required.

### Master of Engineering, Specialization in Software Engineering

- A four-year bachelor's degree in engineering from a recognized institution.
- Applicants with a four-year bachelor's degree in Software Engineering or equivalent from a recognized institution may be exempt from taking the 9 units of foundation courses. This exemption will be determined at the time of admission.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

**Complete ANY of the following Requirement Sets:**

- MEng, Course-based, Electrical and Computer Engineering  
**AND** MEng, Course-based, Electrical and Computer, with an Interdisciplinary Specialization  
**AND** MEng, Course-based, Electrical and Computer, Software Engineering Specialization

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission or for grades below "B".

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

MEng (course-based), Specialization in Software Engineering students may not take any undergraduate courses for credit as part of their program.

## Time Limit

The MEng (course-based) program is typically completed full-time in two years, with academic sessions in Fall and Winter and a scheduled break from May to August. The exception is the specialization in Software Engineering, which is an intensive 12-month program and must be completed on a full-time basis.

The maximum completion time is six years for the Master of Engineering (course-based).

The Master of Engineering, course-based with Internship is normally a three-year program.

## Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Software Engineering (offered jointly through the Department of Electrical and Software Engineering and the Department of Computer Science)
- [Energy&Env](#)
- [Environ En](#)
- [Energy&Env](#)
- [Wearable T](#)

The PhD program may be completed on a full-time or a part-time basis. For details, see <https://grad.ucalgary.ca/future-students/explore-programs/electrical-and-computer-engineering-phd>.

Department Office (MSc and PhD)

Location: ICT Building, Room 402

Program number: 403.220.5806

Email address: <mailto:ese.gradstudies@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- MSc degree in electrical engineering, computer engineering, or software engineering.
- A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

Note: Transfer to the doctoral program without completing the master's degree may be approved for exceptional students whose BSc degrees are in electrical engineering, computer engineering or software engineering.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- Normally, 18 to 27 units at the graduate level beyond the bachelor's degree, or 6 to 15 units at the graduate level beyond the master's degree with no fewer than half the courses in the Departmental program.
- A grade of at least a "B+" in each graduate course with a grade point average of at least 3.30 and a grade of CR in [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#).
- All Doctoral students are required to successfully complete the candidacy requirements, which consist of four components: PhD coursework, a Field of Study examination in Electrical, Computer, and Software Engineering, a written thesis proposal, and an oral thesis proposal examination. Specific details of the candidacy requirements can be found on the [Departmental website](#).

While studying full-time in the PhD program:

- Students will be required to complete Engineering 601 and 603 at the beginning of their graduate studies program.
- Students in the PhD program who completed the course in the MSc program will not be required to take Engineering 601 and 603 for the second time.
- Students who are required to take Engineering 601 and 603 must successfully present two seminars.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission or for grades below "B".

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Where appropriate, PhD students may take 500-level undergraduate courses for credit with approval of the supervisor and the Department (a maximum of 3 units for PhD). Undergraduate courses will not count toward the PhD program requirements.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy. The maximum completion time is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

In the Doctor of Philosophy, a supervisor to provide guidance to the student is normally selected at the time of admission.

## Research Proposal Requirements

The written thesis proposal is evaluated and approved by the candidacy examination committee as part of the candidacy requirements. Specific requirements for the proposal and the format of its evaluation can be found on the [Departmental website](#).

## Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs.

## Doctoral Candidacy Requirements

All Doctoral students are required to pass a Field of Study examination in Electrical, Computer, and Software Engineering and an oral thesis proposal examination. Specific details of the examination format and other candidacy requirements can be found on the [Departmental website](#).

## Doctoral Final Oral Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

## Contact Information

### Engineering Student Centre

Location: Engineering C 205

Student Information: [engginfo@ucalgary.ca](mailto:engginfo@ucalgary.ca) or 403.220.5732

Website: [schulich.ucalgary.ca](http://schulich.ucalgary.ca)

## Introduction

The Schulich School of Engineering at the University of Calgary was established in 1965. The degrees awarded by the Schulich School since its inception have been recognized by the Canadian Engineering Accreditation Board (CEAB). The engineering curriculum consists of a well-balanced mixture of traditional topics in engineering sciences and specialization in subjects relevant to current industrial practice. The academic staff and students of the Schulich School of Engineering come from all parts of the world, giving the Schulich School its uniquely friendly and international atmosphere.

## Enquiries

Enquiries regarding admission, registration, interpretation of regulations, or any matter regarding undergraduate studies in Engineering should be directed to the Engineering Student Centre, Engineering C 205, telephone 403.220.5732. Students and prospective students are invited to view pertinent information available through the engineering website, [schulich.ucalgary.ca/](http://schulich.ucalgary.ca/).

## Admissions

### Program Admissions Information

Prospective students wishing to enter the Bachelor of Science (BSc) in Electrical Engineering must meet the criteria listed in section [3.1 Admissions](#) of this Calendar.

## Program Details

### Simple Requisites

### Schulich School of Engineering Requirements

#### Type

## Completion Requirement

### Schulich School of Engineering Requirements

#### Complete ALL of the following Requirement Sets:

- Schulich School of Engineering - Registration
- Schulich School of Engineering - Course Work
- Schulich School of Engineering - Academic Performance, Review, and Student Standing
- Schulich School of Engineering - Examinations
- Schulich School of Engineering - Graduation

For other regulations related to the Schulich School of Engineering see [3. Schulich School of Engineering Regulations](#).

## Additional Comments:

### Electrical Engineering, Regular Program

#### Type

#### Completion Requirement

#### First Year Curriculum

##### Common to all programs:

- [First Year Curriculum](#)

#### Electrical Engineering - Specified Required Courses

##### Earn at least 63 credits from the following:

- Electrical Engineering 101, 102, 300, 327, 343, 353, 361, 400, 419, 441, 453, 469, 471, 475, 476, 487, 500
- Computer Engineering 369, 467
- 3 units from Computer Engineering 335 or Software Engineering for Engineers 337
- Mathematics 375
- Physics 365

#### Electrical Engineering - Technical Electives

##### Earn at least 18 credits from the following:

- 18 units of Electrical Engineering Technical Electives

#### Complementary Studies - Specified Courses

##### Earn at least 12 credits from the following:

- Engineering 209 (Economics 209) - not open to first-year students
- Engineering 213 or Communications Studies 363
- Engineering 481
- Engineering 513

#### Complementary Studies - General Courses

##### Earn at least 6 credits from the following:

- General Complementary Studies Courses

## Additional Comments:

### Electrical Engineering, Minor in Aerospace

#### Type

Completion Requirement

Electrical Engineering, Minor in Aerospace

In addition to the required courses for Electrical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Aerospace Engineering 410, 411
- Computer Engineering 511
- Electrical Engineering 569
- 3 units of Aerospace Engineering Technical Electives

**The following Electrical Engineering Required Courses are NOT required for this program:**

- 12 units of the 18 required units from Electrical Engineering Technical Electives

**Additional Comments:**

Electrical Engineering, Minor in Biomedical Engineering

Type

Completion Requirement

Electrical Engineering, Minor in Biomedical Engineering

In addition to the required courses for Electrical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Biomedical Engineering 301, 309, 401, 415
- 9 units of Biomedical Engineering Technical Electives

**The following Electrical Engineering Required Courses are NOT required for this program:**

- Electrical Engineering 476, 487
- 6 units of the 18 required units of Electrical Engineering Technical Electives
- 3 units of the 6 required units of General Complementary Studies

**Additional Comments:**

Electrical Engineering, Minor in Computer Engineering

Type

Completion Requirement

Electrical Engineering, Minor in Computer Engineering

In addition to the required courses for Electrical Engineering, the following courses the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Computer Engineering 501, 511
- Software Engineering for Engineers 409
- Computer Science 319, 457
- Electrical Engineering 573
- 3 units from Electrical Engineering 469, 475 or 487

**The following Electrical Engineering Required Courses are NOT required for this program:**

- 9 units of the 18 required units of Electrical Engineering Technical Electives
- Electrical Engineering 469, 475, 476, 487

**Additional Comments:**

**Electrical Engineering, Minor in Digital Engineering**

**Type**

**Completion Requirement**

Electrical Engineering, Minor in Digital Engineering

In addition to the required courses for Electrical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Digital Engineering 311, 410, 411, 510, 511
- 3 units of Digital Engineering Technical Electives

**The following Electrical Engineering Required Courses are NOT required for this program:**

- 12 units of the 18 required units of Electrical Engineering Technical Electives

**Additional Comments:**

**Electrical Engineering, Minor in Energy and Environment**

**Type**

**Completion Requirement**

Electrical Engineering, Minor in Energy and Environment

In addition to the required courses for Electrical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Energy and Environment, Engineering 355
- Energy and Environment, Engineering 377
- Energy Management 301
- Science 529
- Energy and Environment Technical Electives\*
- 6 units from Computer Engineering 467, Electrical Engineering 453, 476

\*Students are required to complete 6 units in Energy Engineering Technical Electives

**The following Electrical Engineering Required Courses are NOT required for this program:**

- 3 units of the 6 required units of General Complementary Studies
- Computer Engineering 467
- Electrical Engineering 453, 476
- 6 units of the 18 required units of Electrical Engineering Technical Electives

**Additional Comments:**

**Electrical Engineering, Minor in Mechatronics**

Type

Completion Requirement

Electrical Engineering, Minor in Mechatronics

In addition to the required courses for Electrical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Computer Engineering 511
- Engineering 349
- Mechanical Engineering 461, 561, 562
- 6 units of Mechatronics Technical Electives\*

*\*Electrical Engineering 503, 525, 541 may be taken as technical electives in the Mechatronics Minor if not used to meet other degree requirements.*

**The following Electrical Engineering Required Courses are NOT required for this program:**

- Electrical Engineering 476, 487
- 9 units of the 18 required units of Electrical Engineering Technical Electives

**Additional Comments:**

**BSc Electrical Engineering/BComm Combined Degree Program**

Type

Completion Requirement

Required Courses - BSc Electrical Engineering/BComm Combined Degree Program

In addition to the required courses for Electrical Engineering, students must complete courses for the Bachelor of Commerce. Refer to the [Haskayne School of Business](#) and the [Bachelor of Commerce](#) for more information.

**Complete ALL of the following Course Sets:**

- Economics 201†
- Economics 203†
- Junior English (3 units)†
- Strategy and Global Management 217†

*†The courses listed above are required for the Bachelor of Commerce and are used to substitute for some of the Complementary Studies (listed above) in the Electrical Engineering, Regular Program.*

**The following Electrical Engineering Required Courses are NOT required for this program:**

- Engineering 209 (Economics 209)
- Engineering 213 or Communication Studies 363
- 6 of the 6 units of General Complementary Studies
- 9 units of the 18 required units of Electrical Engineering Technical Electives

**Additional Comments:**

**Degree Options**

Type

Completion Requirement

## Degree Options

Complete ANY of the following Requirement Sets:

- Schulich School of Engineering - Minors
- Schulich School of Engineering - Combined Degrees
- Embedded Certificates
- Engineering Internship Program

Additional Comments:

## Overview

### General Program Information

#### Specializations:

- [Engineerin](#) (offered jointly through the Department of Electrical and Software Engineering and the Department of Computer Science)
- [Energy&Env](#)
- [Environ En](#)
- [Energy&Env](#)
- [Wearable T](#)

The MSc program may be completed on a full-time or a part-time basis. For details, see <https://grad.ucalgary.ca/future-students/explore-programs/electrical-and-computer-engineering-msc-thesis>.

Department Office (MSc and PhD)

Location: ICT Building, Room 402

Program number: 403.220.5806

Web page URL: <https://schulich.ucalgary.ca/electrical-software>

Email address: <mailto:ese.gradstudies@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-master-science-thesis-based>.

In addition to Faculty of Graduate Studies' [admission](#) requirements and the Schulich School of Engineering requirements, the Department requires:

- A four-year bachelor's degree in electrical engineering or computer or software engineering.
- Applicants with a four-year bachelor's degree in other disciplines may be considered but additional undergraduate courses in electrical engineering or computer or software engineering (as determined by the Graduate Program Director) may be required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- Normally, 12-21 units of coursework at the graduate level.

While studying full-time in the MSc program:

- Students will be required to complete [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#) at the beginning of their graduate studies program.
- Students who are required to take Engineering 601 and 603 must successfully present two seminars.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission or for grades below "B".

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Where appropriate, MSc students may take 500-level undergraduate courses for credit with approval of the supervisor and the Department (a maximum of 6 units for MSc). Undergraduate courses will not count toward the MSc program requirements.

### Time Limit

Expected completion time is 20 months of full-time study for the Master of Science. The maximum completion time is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

In the Master of Science, a supervisor to provide guidance to the student is normally selected at the time of admission.

## Research Proposal Requirements

As required by the Supervisor.

## Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

## Final Oral Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Schulich School of Engineering minimum requirements are as follows:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary Academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Master's thesis students are normally admitted as full-time students. The Head of the Department or designate may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Department Office (MSc and PhD)

Location: ICT Building, Room 402

Program number: 403.220.5806

Web page URL: <https://schulich.ucalgary.ca/electrical-software>

Email address: <mailto:ese.gradstudies@ucalgary.ca>

## Admissions

## Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-master-science-thesis-based>.

In addition to Faculty of Graduate Studies and the Schulich School of Engineering requirements, the Department requires:

A four-year bachelor's degree in software engineering or equivalent from a recognized institution. In addition, applicants must have:

- a) At least one year of experience in software development.
- b) Background knowledge in software engineering methods and concepts, and their wide range of applications. Applicants should be able to design and develop software systems in either an academic or industrial setting.
- c) Knowledge of object-oriented design and human-computer interaction.

Applicants with a four-year bachelor's degree in other disciplines may be considered, but additional undergraduate courses in software engineering (as determined at admission by the Graduate Program Director) may be required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies and the Schulich School of Engineering requirements, the Department requires:

- a) 12 units selected from:

Earn at least 12 credits from the following:

- ENSF603 - Modeling and Measurement of Software Performance  
OR ENSF604 - Theoretical Foundations of Software Engineering  
OR ENSF606 - Software Engineering Fundamentals  
OR ENSF619 - Special Topics  
OR SENG622 - Software Release Planning  
OR SENG627 - Software Engineering Decision Support  
OR SENG629 - Software Engineering Standards and Models  
OR SENG637 - Dependability and Reliability of Software Systems  
OR SENG643 - Automated Software Engineering  
OR SENG696 - Agent-Based Software Engineering  
OR ENEL602 - Virtual Environments and Applications  
OR ENEL645 - Data Mining & Machine Learning

#### Additional Comments:

- b) An applied software engineering project written up as a Master of Science thesis and examined by an examination committee as specified in the Faculty regulations.

While studying full-time in the MSc program:

- Students will be required to complete **ENGG601 Professional Development I** and **ENGG603 Professional Development II** at the beginning of their graduate studies program.
- Students who are required to take Engineering 601 and 603 must successfully present two seminars.

#### Additional Program Information

Type

Completion Requirement

Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission or for grades below "B".

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Where appropriate, MSc students may take 500-level undergraduate courses for credit with approval of the supervisor and the Department (a maximum of 6 units for MSc). Undergraduate courses will not count toward the PhD program requirements.

### Time Limit

Expected completion time is 20 months of full-time study for the Master of Science. The maximum completion time is four years.

### Other Information

Students enrolled in any of the engineering graduate programs may opt, in addition to their normal required course load, to undertake an international project outside Canada. The duration of the project should be between four and six months.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

### Supervisory Assignments and Required Examinations

Type

Completion Requirement

Additional Comments:

### Supervisory Assignments

In the Master of Science, a supervisor to provide guidance to the student is normally selected at the time of admission.

### Research Proposal Requirements

As required by the Supervisor.

### Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Schulich School of Engineering minimum requirements are as follows:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

#### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary Academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

#### **Financial Assistance**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

## Contact Information

### Engineering Student Centre

**Location:** Engineering C 205

**Student Information:** [engginfo@ucalgary.ca](mailto:engginfo@ucalgary.ca) or 403.220.5732

**Website:** [schulich.ucalgary.ca](http://schulich.ucalgary.ca)

### Introduction

The Schulich School of Engineering at the University of Calgary was established in 1965. The degrees awarded by the Schulich School since its inception have been recognized by the Canadian Engineering Accreditation Board (CEAB). The engineering curriculum consists of a well-balanced mixture of traditional topics in engineering sciences and specialization in subjects relevant to current industrial practice. The academic staff and students of the Schulich School of Engineering come from all parts of the world, giving the Schulich School its uniquely friendly and international atmosphere.

### Enquiries

Enquiries regarding admission, registration, interpretation of regulations, or any matter regarding undergraduate studies in Engineering should be directed to the Engineering Student Centre, Engineering C 205, telephone 403.220.5732. Students and prospective students are invited to view pertinent information available through the engineering website, [schulich.ucalgary.ca/](http://schulich.ucalgary.ca/).

## Admissions

### Program Admissions Information

Prospective students wishing to enter the Bachelor of Science (BSc) in Software Engineering must meet the criteria listed in

Respective students wishing to enter the Bachelor of Science (BSc) in Software Engineering must meet the criteria noted in section [3.1 Admissions](#) of this Calendar.

## Program Details

### Simple Requisites

#### Schulich School of Engineering Requirements

##### Type

Completion Requirement

##### School Regulations

##### Complete ALL of the following Requirement Sets:

- Schulich School of Engineering - Registration
- Schulich School of Engineering - Course Work
- Schulich School of Engineering - Academic Performance, Review, and Student Standing
- Schulich School of Engineering - Examinations
- Schulich School of Engineering - Graduation

For other regulations related to the Schulich School of Engineering see [3. Schulich School of Engineering Regulations](#).

##### Additional Comments:

#### Software Engineering, Regular Program

##### Type

Completion Requirement

##### First Year Curriculum

##### Common to all programs:

- [First Year Curriculum](#)

##### Software Engineering - Required Courses

##### Complete ALL of the following Course Sets:

- Digital Engineering 319
- Software Engineering for Engineers 300, 337, 338, 380, 381, 400, 444, 460, 461, 462, 480
- Electrical Engineering 353, 500
- Computer Engineering 369
- Software Engineering 401, 438, 511, 533
- Mathematics 271
- 3 units from Physics 365 or 369
- 12 units of Software Engineering Technical Electives\*

\*A maximum of three Software Engineering for Engineers 519 courses can be and a maximum of one of Biomedical Engineering 509 or 515 can be selected as technical electives.

##### Further Technical Elective notes:

1. Selection of a course not on this list requires department approval. Elective courses are offered, in any calendar year, at the discretion of the department.
2. Computer Science 471, Data Base Management Systems, may be used as a technical elective only by students whose program did not include Computer Science 471 as a required course. Students may not take Computer Science 471 as a technical elective if they have already completed Software Engineering for Engineers 519.31 or Software Engineering for Engineers 300.
3. All technical elective courses have similar workloads even though the hours in the timetable are variable. One 500-level or

high course from either the Faculty of Science or the Schulich School of Engineering may be approved by the Associate Head or by the Program Director as a technical elective. Optional undergraduate courses and all graduate courses are offered, in any calendar year, at the discretion of the department.

#### Complementary Studies - Specific Courses

Earn at least 12 credits from the following:

- Engineering 209 (Economics 209) - not open to first-year students
- Engineering 213 or Communications Studies 363
- Engineering 481
- Engineering 513

#### Complementary Studies - General Courses

Earn at least 6 credits from the following:

- General Complementary Studies Courses

**Additional Comments:**

#### Software Engineering, Minor in Aerospace

Type

Completion Requirement

Required Courses – Software Engineering, Minor in Aerospace

In addition to the required courses for Software Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Aerospace Engineering 410, 411
- Electrical Engineering 301
- 3 units of Aerospace Engineering Technical Electives

**The following Software Engineering Required Courses are NOT required for this program:**

- 9 units of the 12 required units of Software Engineering Technical Electives

**Additional Comments:**

#### Software Engineering, Minor in Biomedical Engineering

Type

Completion Requirement

Required Courses – Software Engineering, Minor in Biomedical Engineering

In addition to the required courses for Software Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Biomedical Engineering 301, 309, 401, 415
- 9 units from Biomedical Minor Technical Electives

**The following Software Engineering Required Courses are NOT required for this program:**

- 12 units of the 12 required units of Software Engineering Technical Electives
- 3 units of the 6 required units of General Complementary Studies

**Additional Comments:**

**Software Engineering, Minor in Mechatronics**

**Type**

**Completion Requirement**

Required Courses - Software Engineering, Minor in Mechatronics

In addition to the required courses for Software Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Engineering 349
- Electrical Engineering 327, 441
- Mechanical Engineering 461, 561
- 3 units of Mechatronics Technical Electives\*

*\*Courses may be taken as technical electives in the Mechatronics Minor if not used to meet other degree requirements.*

Further Technical Elective notes:

1. Selection of a course not on this list requires department approval. Elective courses are offered, in any calendar year, at the discretion of the department.
2. All technical elective courses have similar workloads even though the hours in the timetable are variable. One 500-level or high course from either the Faculty of Science or the Schulich School of Engineering may be approved by the Associate Head or by the Program Director as a technical elective. Optional undergraduate courses and all graduate courses are offered, in any calendar year, at the discretion of the department.

**The following Software Engineering Required Courses are NOT required for this program:**

- 9 units of the 12 required units of Software Engineering Technical Electives

**Additional Comments:**

**Software Engineering/BComm Combined Degree Program**

**Type**

**Completion Requirement**

Required Courses – Software Engineering/BComm Combined Degree Program

In addition to the required courses for Software Engineering, students must complete courses for the Bachelor of Commerce. Refer to the [Haskayne School of Business](#) and the [Bachelor of Commerce](#) for more information.

**Complete ALL of the following Course Sets:**

- Economics 201†
- Economics 203†
- Junior English (3 units)†
- Strategy and Global Management 217†

*†The courses listed above are required for the Bachelor of Commerce and are used to substitute for some of the Complementary Studies (listed above) in the Software Engineering, Regular Program.*

**The following Software Engineering Required Courses are NOT required for this program:**

- Engineering 209 (Economics 209)

- Engineering 213 or Communication Studies 363
- 6 of the 6 units of General Complementary Studies
- 6 units of the 12 required units of Software Engineering Technical Electives

**Additional Comments:**

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Schulich School of Engineering - Combined Degrees
- Schulich School of Engineering - Minors
- Minor Programs
- Embedded Certificates
- Engineering Internship Program

**Additional Comments:**

## Overview

### General Program Information

A Graduate Specialization in Medical Imaging is offered in conjunction with the following graduate programs:

- Biomedical Engineering
- Electrical and Computer Engineering
- Medical Sciences
- Neurosciences
- Physics and Astronomy
- Psychology

The specialization is offered at the MSc and PhD level.

Location: FMC MRG 006

Program number: 403.944.8354

Email address: <mailto:medi@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/programs/medical-imaging-specialization/graduate-specialization>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization.

Admission into a graduate program that offers the Graduate Specialization in Medical Imaging and submission and approval of a written request to join the Specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Medical Imaging specialization must meet the following requirements:

- a) MSc students must take a minimum of 6 units (the core and an elective course). PhD students take at least 9 units (the core and two elective courses). PhD students previously completing the MSc specialization in Medical Imaging will be required to complete an additional 3 units (one elective course).
- b) Medical Imaging-related research thesis.
- c) Attendance and annual presentation in the [Advanced Imaging Seminar Series](#).

These requirements are in addition to the core requirements of a specific participating graduate program. In most programs, the medical imaging graduate courses would count towards graduate program elective courses. In some graduate programs, participation in the specialization may require students to take an additional graduate course or courses.

Core required course:

##### Complete ALL of the following Courses:

- MDSC689.01 - Medical Imaging Techniques

Elective courses:

##### Complete ANY of the following Courses:

- ENEL697 - Digital Image Processing  
**AND** MDSC689.02 - Advanced Magnetic Resonance Imaging  
**AND** MDSC689.03 - Advanced Medical Image Processing  
**AND** MDSC689.11 - Medical Imaging Applications  
**AND** MDSC689.99 - Medical Imaging Project
- [ENME619 Special Problems](#).36
- Neuroscience 5850 at The University of Lethbridge
- Other Medical Imaging-related graduate courses with prior approval of specialization and graduate program

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process. See [Advanced Credit](#) for further information.

### Credit For Undergraduate Courses

Credit (in the specialization) will not be given for 500-level courses.

### Time Limit, Supervisory Assignments and Required Examinations

See requirements of home program.

## Research Proposal Requirements

Research proposal must be on a Medical Imaging topic and fit into a research area broadly defined by the Specialization (see [website](#) for information).

Image Acquisition and Reconstruction - Development of algorithms suitable for accurate imaging using existing technologies (e.g., MR, CT) and emerging methods (e.g., microwaves).

Signal Processing for Information Synthesis - Development of robust strategies for the assessment of brain and other organ function via advanced signal processing.

Quantitative Imaging and Analysis - Development of software engineering approaches, validation and testing for the creation of resilient methods for quantitative imaging.

A copy of the proposal must be provided to the specialization office within 12 months of starting the program.

In programs that do not require submission of a research proposal, a suitable proposal should be developed by the student within 12 months of starting the specialization, approved by the supervisor and supervisory committee (where appropriate), and submitted to the Specialization office.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

See home program. Additional funding may be available through the specialization or other University sources for well-qualified students.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Wearable Technology at the master's and doctoral levels for students registered in the following faculties and graduate programs:

- Faculty of Kinesiology
- Biomedical Engineering Graduate Program
- Geomatics Engineering Graduate Program
- Department of Electrical and Software Engineering
- Department of Computer Science
- Department of Psychology
- Computational Media Design Graduate Program

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

Faculty of Kinesiology

Location: KNB 269

Program number: 403.220.7019

Email address: <mailto:kirsten.penrose@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates/our-programs/wearable>

## Admissions

## Program Admissions Information

The deadlines for applying for admission into the Wearable Technology specialization are available on the Future Students website for the home graduate program.

- [MSCT Kines](#)
- [PHD Kinesi](#)
- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Geoma](#)
- [PHD Geomat](#)
- [Engineerin](#)
- [Engineerin](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Comp](#)
- [PhD Comp M](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Applicants must meet the [admission](#) requirements of the Faculty of Graduate Studies and the home program that offers the Wearable Technology specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

##### MSc (thesis-based)

In addition to meeting the requirements of Faculty of Graduate Studies ([see regulations](#)) and the home program, MSc students in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, supervisor, and supervisory committee.

##### Doctor of Philosophy

In addition to meeting the requirements of Faculty of Graduate Studies and the home program, PhD trainees in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)\*
4. One (3 unit) elective in Biomechanics, OR Data Science, OR Data Visualization\*\* at the 600 or 700 level.

*\*With the support of the student's home program and Faculty of Graduate Studies, the student may complete Kinesiology 612 either before or after admission to candidacy.*

*\*\*Must be approved by the specialization Director, the student's Supervisor and Supervisory Committee.*

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, Supervisor, and Supervisory Committee.

Students are expected to attend the annual Wearable Technology Workshop held each Fall semester and participate in the Wearable Technology Lecture series.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process.

## Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

## Supervisory Assignments

See requirements of home program.

## Required Examinations

See requirements of home program and the Faculty of Graduate Studies ([Academic Regulations](#)).

## Financial Assistance

See home program.

## English; Department of Department

The Department offers programs in English, Creative Writing and Medieval, Renaissance and Reformation Studies. The program is housed in the Social Sciences Building on the 10th and 11th floors.

### Contact Information:

Location: Social Sciences 1152

Phone Number: 403.220.5300

Fax Number: 403.289.1123

Email: [engl@ucalgary.ca](mailto:engl@ucalgary.ca)

Website: [arts.ucalgary.ca/english](https://arts.ucalgary.ca/english)

### Program Advice:

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

### Programs:

BA in English

BA Honours in English

Minor in English

Creative Writing concentration

BA Honours with creative writing thesis

Embedded Certificate in Creative Writing

Minor in Medieval, Renaissance and Reformation Studies

Master of Arts (MA), thesis-based in English

Master of Arts (MA), course-based in English

Doctor of Philosophy (PhD), in English

## Programs

## Overview

### General Program Information

**Program Office:** Department of English, Social Sciences Building, Room 1152

**Website:** [arts.ucalgary.ca/english/future-students/undergraduate/creative-writing](https://arts.ucalgary.ca/english/future-students/undergraduate/creative-writing)

**Email:** [adveng@ucalgary.ca](mailto:adveng@ucalgary.ca)

For advising, students should consult with the Department of English or a Program Advisor at the **Arts Students' Centre**.

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the certificate program through their **Student Centre**. Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate. Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

## Program Details

### Simple Requisites

#### Completion Requirements

##### Type

Completion Requirement

Completion Requirement

**Complete ALL of the following Requirement Sets:**

- Embedded Certificate Completion Requirement

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Course Requirements

- 18 units from the Field of Creative Writing, of which at least 9 units must be at the 400-level or above.\*

**Earn at least 18 credits from the following:**

- Field of Creative Writing

\* For English Honours students, 6 units may be met by taking English 504 with a creative writing project, as determined by the department.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [Home](#) | [English](#) | [Faculty of Arts](#) | [University of Calgary \(ucalgary.ca\)](#)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

Additional Comments:

### Courses Constituting the Field of English

Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of English, including at least 18 units labelled English at the 300 level and above.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of English

Additional Comments:

### Program Requirements

Type

Completion Requirement

Specified Courses - Minor Program

**Earn at least 15 credits from the following:**

- 1. Literary Fundamentals: 6 units English 305, 307, 361, 369, 372, 376, 378, 379

- 2. Literary Theory: 3 units from English 302, 303, 426, 481, 517
- 3. Literatures in Canada: 3 units from English 372, 466, 471, 473, 509
- 4. Black, Indigenous, Persons of Colour and Diasporic Literatures: 3 units from English 369, 376, 378, 424, 466, 491, 493, 514, 515

#### Required Options - Minor Program

- 15 units from Courses Constituting the Field of English with a maximum of 3 units from Drama 371, 471; Linguistics 221

#### Earn at least 15 credits from the following:

- Courses Constituting the Field of English

#### Additional Comments:

## Overview

### General Program Information

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising)

## Introduction

Students choosing to major in English may choose to complete either a BA in English or an Honours BA in English. Both are four-year programs. The BA in English and Honours BA in English provide students with a broad education in the history of literature in English and encourage wide exploration of Indigenous and global traditions as well as theoretical contexts. Both programs are excellent preparation for careers in education, law, writing, business, and government. Students wanting to enhance their studies with non-academic experience may pursue their degree in tandem with the Co-operative Education program. The Honours BA in English is considered the best preparation for those wanting to pursue graduate studies in English.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (English) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: **3. Faculty of Arts Regulations.**

**Additional Comments:**

## Courses Constituting the Field of English

**Type**

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of English while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of English

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 27 credits from the following:**

- 1. Literary Fundamentals: 6 units English 305, 307, 361, 369, 372, 376, 378, 379
- 2. Literary Theory: 6 units from English 302, 303, 426, 481, 517
- 3. Literatures in Canada: 3 units from English 372, 466, 471, 473, 509
- 4. Black, Indigenous, Persons of Colour and Diasporic Literatures: 6 units from English 369, 376, 378, 424, 466, 491, 493, 514, 515, including at least 3 units from the 400 level or above
- 5. Historical Courses pre-1900: 6 units from English 401, 403, 405, 406, 410, 411, 412, 413, 429, 431, 438, 441, 445, 449, 461, 495, 499\*, 519\*

*\*May be used with approval of the Undergraduate Program Director.*

Major-Field - Required Options

- 6. *English Options:* An additional 21 units from Courses Constituting the Field of English including at least 15 units at the 300 level or above, and no more than 6 units in Drama or Linguistics.

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of English
- 7. *Upper-Year Courses:* Inclusive of the courses used to satisfy requirements 2-6 above, 21 units must be from courses labelled English at the 400 level or above, of which at least 3 units must be at the 500 level.

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/english](https://arts.ucalgary.ca/english)

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Students choosing to major in English may choose to complete either a BA in English or an Honours BA in English. Both are four-year programs. The BA in English and Honours BA in English provide students with a broad education in the history of literature in English and encourage wide exploration of Indigenous and global traditions as well as theoretical contexts. Both programs are excellent preparation for careers in education, law, writing, business, and government. Students wanting to enhance their studies with non-academic experience may pursue their degree in tandem with the Co-operative Education program. The Honours BA in English is considered the best preparation for those wanting to pursue graduate studies in English.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (English) Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

## Faculty of Arts Requirements

### Type

Completion Requirement

Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

## Courses Constituting the Field of English

### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of English while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of English

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 39 credits from the following:**

- 1. Literary Fundamentals: 6 units English 305, 307, 361, 369, 372, 376, 378, 379
- 2. Literary Theory: 9 units from English 302, 303, 426, 481, 517
- 3. Literatures in Canada: 3 units from English 372, 466, 471, 473, 509
- 4. Black, Indigenous, Persons of Colour and Diasporic Literatures: 6 units from English 369, 376, 378, 424, 466, 491, 493, 514, 515, including at least 3 units from the 400 level or above
- 5. Historical Courses pre-1900: 9 units from English 401, 403, 405, 406, 410, 411, 412, 413, 429, 431, 438, 441, 445, 449, 461, 495, 499\*, 519\*
- 6. Honours Project: 6 units English 504

*\*May be used with approval of the Undergraduate Program Director.*

Major-Field - Required Options

7. English Options: An additional 21 from Courses Constituting the Field of English, including at least 18 units at the 300 level or above, and no more than 6 units in Drama or Linguistics.

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of English
8. Upper-Year Courses: Inclusive of the courses used to satisfy requirements 2-7 above, 21 units must be from courses labelled English at the 400 level or above, of which at least 12 units must be at the 500 level.

Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

### General Program Information

The MA, course-based is a continuous program with no scheduled break.

This one-year program includes significant independent research, is SSHRC-eligible, and is appropriate for students who intend to proceed to doctoral studies.

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

### Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department [website](#) for further details.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-master-arts-course-based>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A completed four-year undergraduate program (or equivalent) with a Major in English Literature or in a closely related discipline.
- b) A minimum admission grade point average of 3.3 on a four-point scale over the final 60 units of the undergraduate degree.
- c) A Statement of Intent.

## UCalgary

- d) A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- e) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a grade of "A-" in two courses and "B+" in all other courses.
- f) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department requires:

a) 21 units in English at the 600 or 700 level beyond the Honours BA or equivalent.

b) **ENGL710 Capstone Project**.

c) **ENGL691 Graduate Pro-seminar** or its equivalent.

All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

Application for advanced credit must be made to the Department Head at the time of admission.

#### Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

With the approval of the Department, all MA students may take for credit up to 3 units at the 500 level (excluding English 504).

#### Time Limit

Expected completion time is up to twelve months for the course-based Master of Arts. Maximum completion time is two years.

## Supervisory Assignments and Research Proposal Requirements

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are initially assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

Thesis-based: By March 1 of the first year, each student must submit a proposed field of research and the name of a proposed supervisor to the Graduate Executive Committee for approval.

Course-based: By June 1, students will approach a faculty member, normally one with whom they have completed (or are completing) a graduate course, to request supervision for their capstone research project.

## Research Proposal Requirements

By June 15 students will prepare a topic proposal of two pages plus bibliography for the capstone course and submit it to the Graduate Program Office for approval. Further details are available from the department.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

The MA, thesis-based program includes significant independent research.

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

### Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department [website](#) for further details.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-master-arts-thesis-based>

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

- a) A completed four-year undergraduate program (or equivalent) with a Major in English Literature or in a closely related discipline.
- b) A minimum admission grade point average of 3.3 on a four-point scale over the final 60 units of the undergraduate degree.
- c) A Statement of Intent.
- d) A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- e) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the Academic Communication Certificate with a grade of "A-" in two courses and "B+" in all other courses.
- f) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies requirements and Faculty of Arts requirements, the Department requires:

- a) 18 units in English at the 600 or 700 level beyond the Honours BA or equivalent.
- b) **ENGL691 Graduate Pro-seminar** or its equivalent.
- c) A scholarly and/or critical thesis (approximately 100 pp).

##### Copyediting

While suggestions for editorial changes are a normal part of the collaboration between a student, the supervisory committee and the academic community, having a thesis professionally edited is prohibited by the department.

All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for advanced credit must be made to the Department Head at the time of admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

With the approval of the Department, all MA students may take for credit up to 3 units at the 500 level (excluding English 504).

## Time Limit

Expected completion time is two years for the thesis-based Master of Arts. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are initially assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

Thesis-based: By March 1 of the first year, each student must submit a proposed field of research and the name of a proposed supervisor to the Graduate Executive Committee for approval.

Course-based: By June 1, students will approach a faculty member, normally one with whom they have completed (or are completing) a graduate course, to request supervision for their capstone

## Thesis Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

The thesis examination is open to the public.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

# UCalgary

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

## Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department [website](#) for further details.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-doctor-philosophy-thesis-based>

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate program (or equivalent), and a completed Master's degree. At least one of the degrees must be in English Literature. In exceptional circumstances, degrees in a closely related discipline may meet admission requirements.
- A grade point average of 3.5 on a four-point scale at the graduate level.
- A Statement of Intent.
- A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68. This requirement can also be met by completing the [Academic Communication Certificate](#) with a grade of "A-" in two courses and "B+" in all other courses.
- Two reference letters.
- A curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- 18 units in English at the 600 or 700 level beyond the Master's.
- [ENGL691 Graduate Pro-seminar](#) or its equivalent.
- A demonstrated reading knowledge of a language other than English. Students are encouraged to establish competency in a language that contains a body of texts relevant to their program of study. This requirement can be met in one of the following ways:  
A minimum grade of "B" in 6 units at a senior (300) level in a language course.  
Passing the department reading exam, which is set twice a year.

Documentation establishing native proficiency in a language other than English. It is the responsibility of the student to supply evidence of native proficiency or evidence that course work in a language at another university meets the requirement spelled out in this guide. Students who do not meet the requirement upon entry should consult with the Associate Head (Graduate Program) no later than the week before classes begin about the best approach to take.

d) Written and oral Field of Study Examinations.

e) A thesis proposal.

f) A doctoral thesis on approved topic and an oral thesis examination.

## Copyediting

While suggestions for editorial changes are a normal part of the collaboration between a student, the supervisory committee and the academic community, having a thesis professionally edited is prohibited by the department.

All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Application for advanced credit must be made to the Department Head at the time of admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

For the first eight months of the program, students are assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

By March 1 of the first year, each student will submit the name of a proposed supervisor and the proposed thesis research focus to the Graduate Executive Committee for approval.

By September 30 of the second year, the student, in consultation with the supervisor, will submit the names of the proposed

supervisory committee, Field of Study, and initial thesis proposal to the Graduate Executive Committee for approval.

## Required Examinations

### Candidacy

Before formally embarking on the writing of the PhD thesis, all students must pass a Field of Study Written Examination, a Field of Study Oral Examination and pass a Thesis Proposal supervisory committee meeting and review. Details about the examination format and other candidacy requirements are available at: <https://arts.ucalgary.ca/english/current-students/graduate/doctoral-candidacy>.

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

The thesis examination is open to the public.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

#### Contact Information

Website: [Home](#) | [English](#) | [Faculty of Arts](#) | [University of Calgary \(ucalgary.ca\)](#)

#### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [ARTS CURRENT UNDERGRAD Academic advising and degree planning](#) | [Arts Students Centre](#) | [Faculty of Arts](#) | [University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty Requirements

**Type**

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

**Courses Constituting the Field of Medieval, Renaissance and Reformation Studies**

**Type**

Completion Requirement

Courses Constituting the Field of Medieval, Renaissance and Reformation Studies

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Medieval, Renaissance and Reformation Studies, with at least 18 units at the 300 level or above.

**Enroll in the following Requirement Sets:**

- Courses Constituting the Field of Medieval, Renaissance and Reformation Studies

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Required Courses - Minor Program

Complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Medieval, Renaissance and Reformation Studies, with:

- At least 18 units at the 300 level or above.
- In addition, at least 6 units must be completed in each of three of the five Subject Areas comprising Courses Constituting the Field of Medieval, Renaissance and Reformation Studies.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Medieval, Renaissance and Reformation Studies

No more than 6 units can be counted from Area 5, Languages.

**Additional Comments:**

## Faculty of Arts Department

Summary of Degree Programs

Student Advising

Faculty Regulations

Program Details

Suspended Programs

Academic Leadership

Departments and Schools

Courses of Instruction by the Faculty of Arts

## Programs

### Overview

General Program Information

### Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion).

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

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## Introduction

The Department of Classics and Religion offers instruction in Ancient and Medieval History, Greek and Roman Studies, and Religious Studies.

The Ancient and Medieval History program examines pre-modern societies around the globe, from those of the Greeks and Romans of antiquity to the European Middle Ages, from the civilizations of the ancient Near East to those of southern and eastern Asia, Africa, and the Americas. To study Ancient and Medieval History is to discover cultures that, while they are unlike our own in many respects, have nevertheless provided the political, social, religious and intellectual foundations of the modern world.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Ancient and Medieval History Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

Simple Requisites

<b>Faculty of Arts Requirements</b>
<b>Type</b>
Completion Requirement
Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: **3. Faculty of Arts Regulations.**

**Additional Comments:**

#### Courses Constituting the Field of Ancient and Medieval History

**Type**

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Ancient and Medieval History while fulfilling the Program Requirements

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Ancient and Medieval History

**Additional Comments:**

#### Program Requirement

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 30 credits from the following:**

- Core Courses: 12 units from Greek and Roman Studies 341, 345, 347; History 320
- Core Courses: 12 units from Religious Studies 303, 313, 319, 323, 327, 329, 357, 359, 383, 385, 387
- Advanced Courses: 6 units from Greek and Roman Studies 415, 417, 419; Religious Studies 451, 453, 461, 469, 484

Major-Field - Required Options

Ancient and Medieval History Options

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Ancient and Medieval History

**Additional Comments:**

#### Degree Options

**Type**

Completion Requirement

Degree Options

To complete ***optional*** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Honours Degrees

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

### Overlapping Programs

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

Minors in Greek or Latin may be taken in conjunction with degrees in Ancient and Medieval History.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Classics and Religion offers instruction in Ancient and Medieval History, Greek and Roman Studies, and Religious Studies.

The Ancient and Medieval History program examines pre-modern societies around the globe, from those of the Greeks and Romans of antiquity to the European Middle Ages, from the civilizations of the ancient Near East to those of southern and eastern Asia, Africa, and the Americas. To study Ancient and Medieval History is to discover cultures that, while they are unlike our own in many respects, have nevertheless provided the political, social, religious and intellectual foundations of the modern world.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Ancient and Medieval History Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

## Faculty of Arts Requirements

### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

### Additional Comments:

## Courses Constituting the Field of Ancient and Medieval History

### Type

Completion Requirement

Students must successfully complete a minimum of 54 units to a maximum of 72 units in Courses Constituting the Field of Ancient and Medieval History while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Ancient and Medieval History

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 39 credits from the following:

- Core Courses: 12 units from Greek and Roman Studies 341, 345, 347; History 320
- Core Courses: 12 units from Religious Studies 303, 313, 319, 323, 327, 329, 357, 359, 383, 385, 387
- Advanced Courses: 6 units from Greek and Roman Studies 415, 417, 419; Religious Studies 451, 453, 461, 469, 484
- Historiography Course: 3 units from Greek and Roman Studies 499
- Honours Thesis: 6 units from Greek and Roman Studies 504, Religious Studies 590

#### Major-Field - Required Options

#### Ancient and Medieval History Options

#### Earn at least 15 credits from the following:

- Courses Constituting the Field of Ancient and Medieval History

#### Other Requirements - Language Requirement

To be satisfied by completing one of the following:

#### Earn at least 12 credits from the following:

- 12 units courses labelled Greek (GREK)
- 12 units courses labelled Latin (LATI)
- 6 units in each of two of the following languages: Classical Chinese (Religious Studies 320, 322), Classical Hebrew (Religious Studies 300, 302), Sanskrit (Religious Studies 310, 312), Tibetan (Religious Studies 314, 316), for a total of 12 units

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

#### Overlapping Programs

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

Minors in Greek or Latin may be taken in conjunction with degrees in Ancient and Medieval History.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

The BA in Anthropology focuses on social and cultural anthropology and adopts a cross-cultural perspective. Courses seek to foster an understanding and appreciation of the wide variety of cultures in the world and provide critical insights into how people actually live and how they negotiate the challenges created by globalization.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Anthropology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Anthropology

##### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

##### Earn at least 45 credits from the following:

- Courses Constituting the Field of Anthropology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

Major-Field - Specified Courses

Earn at least 27 credits from the following:

- Core: 15 units Anthropology 201, 203, 411, 490, Archaeology 201
- Ethnography: 6 units from African Studies 201, Anthropology 320, 321, 329, 355, 421\*; Archaeology 345, 399, 419, 439, Global Development Studies 403
- Upper-Year Courses: 6 units from Anthropology 400, 408, 410, 421\*, 441, 449, 466, 501, 523, 541

*\*Anthropology 421 may not be used to satisfy both the ethnography requirement and the Upper-Year Courses requirement.*

Major-Field - Required Options

Earn at least 18 credits from the following:

- Courses Constituting the Field of Anthropology

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Honours Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

The BA in Anthropology focuses on social and cultural anthropology and adopts a cross-cultural perspective. Courses seek to foster an understanding and appreciation of the wide variety of cultures in the world and provide critical insights into how people actually live and how they negotiate the challenges created by globalization.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Anthropology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSc Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Anthropology

##### Type

## Completion Requirement

Students must successfully complete a minimum of 57 units to a maximum of 72 units in Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

**Earn at least 57 credits from the following:**

- Courses Constituting the Field of Anthropology

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 30 credits from the following:**

- Core: 15 units Anthropology 201, 203, 411, 490, Archaeology 201
- Ethnography: 6 units from African Studies 201, Anthropology 320, 321, 329, 355, 421\*; Archaeology 345, 399, 419, 439, Global Development Studies 403
- Upper-Year Courses: 6 units from Anthropology 400, 408, 410, 421\*, 441, 449, 466, 501, 523, 541
- Capstone Honours Seminar: 3 units Anthropology 573

*\*Anthropology 421 may not be used to satisfy both the Ethnography requirement and the Upper-Year Courses requirement.*

#### Major-Field - Required Options

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of Anthropology

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

The BSc in Anthropology (also known as biological anthropology) includes courses in paleoanthropology and bioanthropology, which investigate the origins of our species, variation, and adaptation in modern human populations, and the behaviour and ecology of other primate species. Laboratory-based courses examine casts of fossils from the earliest primates through to modern humans, and also human and primate genetics.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BSc Anthropology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

### Courses Constituting the Field of Anthropology

#### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

**Earn at least 45 credits from the following:**

- Courses Constituting the Field of Anthropology

**Additional Comments:**

### Program Requirements

#### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 33 credits from the following:**

- Core: 21 units Anthropology 201, 203, 305, 309, 311, 350, Archaeology 201.
- Upper-Year Courses: 12 units from Anthropology 400, 409, 412, 413, 425, 435, 441, 445, 449, 451, 505, 506, 534, 552, 553, 589; Archaeology 437, 453, 555, 595

Major-Field - Required Options

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Anthropology

Other Requirements

**Earn at least 3 credits from the following:**

- Biology: 3 units from any 200- or 300-level Biology course

**Additional Comments:**

### Degree Options

#### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

The BSc in Anthropology (also known as biological anthropology) includes courses in paleoanthropology and bioanthropology, which investigate the origins of our species, variation, and adaptation in modern human populations, and the behaviour and ecology of other primate species. Laboratory-based courses examine casts of fossils from the earliest primates through to modern humans, and also human and primate genetics.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BSc Anthropology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSc Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

Simple Requisites

Faculty of Arts Requirements Type
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## Completion Requirement

### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

## Additional Comments:

## Courses Constituting the Field of Anthropology

### Type

### Completion Requirement

Students must successfully complete a minimum of 57 units to a maximum of 72 units in Courses Constituting the Field of Anthropology while fulfilling the Program Requirements.

#### Earn at least 57 credits from the following:

- Courses Constituting the Field of Anthropology

## Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 45 credits from the following:

- Core: 21 units Anthropology 201, 203, 305, 309, 311, 350, Archaeology 201.
- Upper-Year Courses: 12 units from Anthropology 400, 409, 412, 413, 425, 435, 441, 445, 449, 451, 505, 506, 534, 552, 553, 589; Archaeology 437, 453, 555, 595
- Honours Thesis: 6 units Anthropology 590

#### Major-Field - Required Options

#### Earn at least 18 credits from the following:

- Courses Constituting the Field of Anthropology

#### Other Requirements

#### Earn at least 6 credits from the following:

- Biology: 3 units from any 200- or 300-level Biology course
- Statistics: 3 units from Biology 315\*; Geography 485, 585; Psychology 300; Sociology 311, 315; Statistics 213, 217

*\*Biology 315 may not be used toward the Biology Requirement*

## Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

General Program Information

Specialization:

**Biological**

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

Program Admissions Information

Application deadline is available on the Future Students [website](#).

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- A minimum grade point average of 3.30 or higher on a four-point scale.
- An example of the applicant's written work: a term paper, research paper or other writing which the applicant considers representative of their best work.
- A concise statement outlining the applicant's academic interests and reasons for wishing to pursue graduate work in this Department. The thesis research area should be clearly identified.
- An up-to-date curriculum vitae.
- Two letters of reference.

## Program Details

Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

**Additional Comments:**

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements:

Candidates for the MA degree are normally required to complete a minimum of 12 units in Anthropology at the 600 level. At the discretion of the Graduate Studies Committee, students may be required to take a total of 15 units of course work in Anthropology. The following courses are required of all master's students:

[ANTH603 Thesis Development](#), [ANTH605 Prof Skills For Anthropologists](#), [ANTH611 Methods In Anth Research](#)

OR

[ANTH613 Issues Methodology & Primatology](#), [ANTH631 Anthropological Theory I](#), [ANTH635 Primatological Theory](#)

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

**Flexible Grade Option (CG Grade)**

The program of Anthropology in the department of Anthropology and Archaeology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Anthropology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Only where appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses.

**Time Limit**

Expected completion time is two years and maximum completion time is four years. See [G.D.6 Time Limits](#).

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

A supervisor is assigned to each student upon entering the program.

**Thesis Examination**

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

## Financial Assistance

Financial assistance in the form of research and teaching assistantships is available to qualified students. Information on awards can be obtained from the Department office or in the [Awards and Financial Assistance](#) section of this Calendar. All students are strongly encouraged to seek external financial assistance for the program, as the Department of Anthropology and Archaeology cannot guarantee the availability of financial assistance.

Students applying for the Graduate Awards Competition scholarships must submit their applications to the Department by January 25.

## Overview

### General Program Information

#### Specialization:

- [Biological](#)

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/anthropology-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/anthropology-doctor-philosophy-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A minimum grade point average of 3.40 or higher on a four-point scale.
- Two letters of reference.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- A specialization of either primatology, or social and cultural anthropology.

b) **ANTH701 Independent Studies**, a reading course in the student's substantive area. Beyond that, the supervisory committee will individually tailor each student's course requirements to the student's particular needs.

c) For social and cultural anthropology, field work for a minimum of one year. Students in primatology will be required to collect primary data via experimental and/or observational research on wild or captive primate populations for a period of not less than twelve months. The amount of time required for field work for students who started their field work between 2019 and 2021 may be revised with the approval of the students' supervisory committee.

d) Demonstrated proficiency in a language other than English. Normally, in the course of the doctoral program, competent faculty in other Departments will evaluate the student's linguistic competence, principally in reading and writing.

#### Additional Program Requirements

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

#### Flexible Grade Option (CG)

The program of Anthropology in the department of Anthropology and Archaeology will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Anthropology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Only where appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses.

#### Time Limits

Expected completion time is four years. Maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

#### Supervisory Assignments

A supervisor is assigned to each student upon entering the program.

#### Candidacy

Doctoral students must complete a written thesis proposal, which will be evaluated by the supervisory committee. They must also pass oral and written Field of Study examinations and a second-language proficiency examination. For complete details of the candidacy requirements, see [antharky.ucalgary.ca/CandidacyRequirements](http://antharky.ucalgary.ca/CandidacyRequirements).

#### Thesis Examination

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Department requires:

## *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner must be external to the home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

## **Financial Assistance**

Financial assistance in the form of research and teaching assistantships is available to qualified students. Information on awards can be obtained from the Department office or in the [Awards and Financial Assistance](#) section of this Calendar. All students are strongly encouraged to seek external financial assistance for the program, as the Department of Anthropology and Archaeology cannot guarantee the availability of financial assistance.

Students applying for the Graduate Awards Competition scholarships must submit their applications to the Department by January 25.

## **Overview**

### **General Program Information**

### **Contact Information**

Website: [arts.ucalgary.ca/art-art-history/art-and-art-history-home](https://arts.ucalgary.ca/art-art-history/art-and-art-history-home).

### **For Program Advice**

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## **Introduction**

The Department of Art and Art History is committed to the study and practice of the visual arts as these relate to:

- (a) Creative research in art practices (studio);
- (b) Educational practice and theory (Art Education); and
- (c) Critical study of art in its diverse historical and cultural settings (Art History).

The Department offers the four-year BFA and BFA Honours (Visual Studies) degree, the four year BA in Art History, and a five-year concurrent degree program with the Werklund School of Education, leading to the BFA (Visual Studies) and Bachelor of Education degrees.

The Visual Studies program provides a core of work in the theory and methodology of art education, as well as a foundation in studio art and Art History. Students interested in teacher certification should pursue the concurrent degree program with the Werklund School of Education, which offers three years of study in the Visual Studies program and two years in the Bachelor of Education program.

The BA (Art History) engages students in critical and creative analysis of art objects and cultural forms in a variety of historical, geopolitical, and cultural contexts.

## **Admissions**

### **Program Admissions Information**

Prospective students wishing to enter the BA (Art History) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Art History

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Art History while fulfilling the Program Requirements.

**Earn at least 42 credits from the following:**

- Courses Constituting the Field of Art History

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major Field Specified Courses

**Earn at least 30 credits from the following:**

- Core Courses: 15 units Art History 201, 203, 211, 431, 511
- Core Courses: 3 units from Art History 331, 333, 357
- Art History: 12 units in courses labelled Art History (ARHI)

#### Major-Field Required Options

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Art History

#### Other Requirements

Earn at least 12 credits from the following:

- English: 6 units in courses labelled English (ENGL)
- Art: 6 units in courses labelled Art (ART)

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

## Overlapping Programs

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees, and Second Baccalaureate Degrees.

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management.

Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Archaeology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Archaeology

##### Type

Completion Requirement

Students must successfully complete a minimum of 45 to a maximum of 60 units in Courses Constituting the Field of Archaeology while fulfilling the

##### Earn at least 45 credits from the following:

- Courses Constituting the Field of Archaeology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 36 credits from the following:

- Core: 12 units Archaeology 201, 451, Anthropology 201, 203

- Regional Archaeology: 6 units from Archaeology 303, 317, 321, 335, 341, 343, 395, 423, 437, 439
- Archaeological Techniques: 6 units from Archaeology 306\*, 415, 417, 453, 471, 506, 515, 555, Geography 412
- Ethnography and Ethnohistory: 6 units from Archaeology 307, 345, 399, 419; Anthropology 320, 321, 329, 355
- Advanced Seminar Courses: 6 units from Archaeology 503, 531, 591, 593, 595, Anthropology 523

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement, and the other 3 units count towards Archaeology Options.*

Major-Field - Required Options

Earn at least 9 credits from the following:

- Courses Constituting the Field of Archaeology

Additional Comments:

### Degree Options

#### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management. Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Archaeology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSc Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](http://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Archaeology

##### Type

## Completion Requirement

BA students must successfully complete a minimum of 54 units to a maximum of 72 units in the Courses Constituting the Field of Archaeology while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Archaeology

## Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 36 credits from the following:**

- Core: 12 units Archaeology 201, 451, Anthropology 201, 203
- Regional Archaeology: 6 units from Archaeology 303, 317, 321, 335, 341, 343, 395, 423, 437, 439
- Archaeological Techniques: 6 units from Archaeology 306\*, 415, 417, 453, 471, 506, 515, 555, Geography 412
- Ethnography and Ethnohistory: 6 units from Archaeology 307, 345, 399, 419; Anthropology 320, 321, 329, 355
- Honours Thesis: 6 units Archaeology 590

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement, and the other 3 units count towards Archaeology Options.*

#### Major-Field - Required Options

**Earn at least 15 credits from the following:**

- Courses Constituting the Field of Archaeology

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement, and the other 3 units count towards Archaeology Options.*

#### Other Requirements

**Earn at least 3 credits from the following:**

- Statistics: 3 units from Geography 485, 585; Psychology 300; Sociology 311, 315; Statistics 213, 217

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management. Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BSc Archaeology Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

## Additional Comments:

## Courses Constituting the Field of Archaeology

### Type

Completion Requirement

Students must successfully complete a minimum of 48 to a maximum of 60 units in Courses Constituting the Field of Archaeology while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Archaeology

## Additional Comments:

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 39 credits from the following:**

- Core: 15 units: Archaeology 201, 451, Anthropology 201, 203, 350
- Regional Archaeology: 6 units from Archaeology 303, 317, 321, 335, 341, 343, 395, 423, 437, 439
- Archaeological Techniques: 6 units from Archaeology 306\*, 415, 417, 453, 471, 506, 515, 555, Geography 412
- Ethnography and Ethnohistory: 6 units from Archaeology 307, 345, 399, 419; Anthropology 320, 321, 329, 355
- Advanced Seminar Courses: 6 units from Archaeology 503, 531, 591, 593, 595, Anthropology 523

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement. The remaining 3 units count towards partial fulfillment of the Archaeology Options requirement.*

Major-Field - Required Options

**Earn at least 9 credits from the following:**

- Courses Constituting the Field of Archaeology

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement. The remaining 3 units count towards partial fulfillment of the Archaeology Options requirement.*

Other Requirements

**Earn at least 48 credits from the following:**

- Natural Science Emphasis: Inclusive of the courses used to fulfill Major-Field Specified Courses and Major-Field Required Options above, students must include in their degree a minimum of 48 units from the Courses with a Natural-Science Emphasis

## Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Department of Anthropology and Archaeology takes a comparative, cross-cultural, and cross-species perspective to understand human beings. Anthropologists and archaeologists consider how humans evolved, how they shape—and are shaped by—their culture and seek to understand the records they have left behind. Students are encouraged to take one of the field schools to gain hands-on experience.

Students wishing to emphasize the social sciences and humanities in their Anthropology or Archaeology program should register for the BA degree. Those wishing to emphasize the natural and biological sciences should register for the BSc degree. It is recommended that first-year students in any of these programs register in Anthropology 201, 203, and Archaeology 201.

Archaeology courses address the development of complexity, paleopathology, ethnoarchaeology, lithic technology, geoarchaeology, human osteology, zooarchaeology, human-environment interaction, and cultural heritage management. Laboratory-based courses emphasize a hands-on approach to learning analytical techniques. Geographic areas include North and South America, Mesoamerica, North Africa, and the Arctic.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Archaeology Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSC Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Archaeology

##### Type

Completion Requirement

Students must successfully complete a minimum of 54 units and a maximum of 72 units in Courses Constituting the Field of Archaeology while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Archaeology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 42 credits from the following:**

- Core: 15 units: Archaeology 201, 451, Anthropology 201, 203, 350

- Regional Archaeology: 6 units from Archaeology 303, 317, 321, 335, 341, 343, 395, 423, 437, 439
- Archaeological Techniques: 6 units from Archaeology 306\*, 415, 417, 453, 471, 506, 515, 555, Geography 412
- Ethnography and Ethnohistory: 6 units from Archaeology 307, 345, 399, 419; Anthropology 320, 321, 329, 355
- Honours Thesis: 6 units Archaeology 590

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement. The remaining 3 units count towards partial fulfillment of the Archaeology Options requirement.*

#### Major-Field - Required Options

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Archaeology

*\*Archaeology 306 counts as 3 units for the Archaeological Techniques requirement. The remaining 3 units count towards partial fulfillment of the Archaeology Options requirement.*

#### Other Requirements

**Earn at least 51 credits from the following:**

- Natural Science Emphasis: Inclusive of the courses used to fulfill Major-Field Specified Courses and Major-Field Required Options above, students must include in their degree a minimum of 48 units from the Courses with a Natural-Science Emphasis
- Statistics: 3 units from Geography 485, 585; Psychology 300; Sociology 311, 315; Statistics 213, 217

**Additional Comments:**

#### Degree Options

##### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

General Program Information

Interdisciplinary Specialization:

- Biological

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/archaeology-master-arts-thesis-based>

In addition to Faculties of Graduate Studies and Arts [admission requirements](#), the Department requires:

- A specimen of relevant written work (an honours essay, term paper, or seminar essay bearing the grade and initials of the supervising professor, the analysis chapter of a Master of Arts thesis or a published article where the applicant is the sole or senior author).
- A concise statement setting forth the reasons for wishing to pursue graduate work in this department.
- An up-to-date curriculum vitae.
- A 3.30 grade point average in the last two years of program or over the last 60 units.
- Two letters of reference from individuals able to evaluate academic potential.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Normally, 12 units including one of the following, as determined by the student's evaluation committee: [ARKY615 Topics in Arky Theory & Method](#) or [ARKY617 Theory & its Appl in Biol Anth.](#)

b) Two courses, which may include: [ANTH605 Prof Skills ForAnthropologists](#), [ARKY601 Theoretical Foundations](#), a course in human osteology, or other courses as determined by the student's evaluation committee.

Complete at least 1 of the following courses:

- ARKY625 - Hunter-Gatherer Adaptations  
OR ARKY627 - Origins Of Agriculture  
OR ARKY631 - The Development of Complex Societies  
OR ARKY633 - Specialized Analyses of Archaeological Materials  
OR ARKY635 - Social Identity

d) A season of field work or the equivalent.

#### Additional Comments:

### Additional Requirements

During the first two weeks in program, each student will undergo an evaluation. This is not an examination but an assessment of academic background. The specific regulations and procedures covering evaluations and examinations are on file in the Department Office and are available to students. It is the responsibility of every student to become familiar with these regulations.

Field work may be counted towards fulfillment of the full-time study and research requirement.

#### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The Department does not normally give advanced credit.

**Flexible Grade Options (CG Grade)**

The program of Archaeology in the department of Anthropology and Archaeology will not permit the Flexible Grade Option (CG Grade) for any course offered by the Archaeology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Normally only courses at the 500 level or higher may be taken for credit toward a graduate program. No more than two courses may be at the 500 level.

**Time Limits**

Expected completion time is two years. Maximum completion time is four years.

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

The Department assigns an interim advisor to each student upon arrival. At any time before the end of the first year of studies, each student must select a faculty member to serve as supervisor. The interim advisor may become the supervisor.

Doctoral supervisory committees may be appointed at any time during the first year of studies, but no later than three months after the appointment of the supervisor. The supervisor, in consultation with the student, selects the committee.

**Thesis Examination**

Final thesis oral examinations are open.

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

*Scheduling of the Examination*

All members of the supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

*Composition of the Committee*

The Internal Examiner must be external to the home program.

**Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance in the form of research and teaching assistantships may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for Graduate Award Competition scholarships must submit their applications to the Department by January 25.

Funding is provided to students so that they can concentrate on their courses and research. Therefore, a graduate student is not allowed to work for more than 15 hours a week while holding departmental funding. Failure to abide by this policy will result in a decrease in or cancellation of departmental funding.

## Overview

### General Program Information

Interdisciplinary Specialization:

- **Biological**

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/archaeology-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Arts **admission requirements**, the Department requires:

- A specimen of relevant written work (an honours essay, term paper, or seminar essay bearing the grade and initials of the supervising professor, the analysis chapter of a Master of Arts thesis or a published article where the applicant is the sole or senior author).
- A concise statement setting forth the reasons for wishing to pursue graduate work in this department.
- An up-to-date curriculum vitae.
- A 3.30 grade point average in the last two years of program or over the last 60 units.
- Two letters of reference from individuals able to evaluate academic potential.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department requires:

- Normally, 18 units in Archaeology.
- For those without a Master of Arts degree, normally 24 units.

Note: The number of courses required of each student may vary according to each student's particular needs as determined by the supervisory committee.

c) Unless previously satisfied, [ARKY601 Theoretical Foundations](#) and one of the following: [ARKY615 Topics in Arky Theory & Method](#) [ARKY617 Theory & its Appl in Biol Anth.](#)

d) Two of: Archaeology [ARKY625 Hunter-Gatherer Adaptations](#), [ARKY627 Origins Of Agriculture](#), [ARKY631 The Dev of Complex Societies](#), [ARKY633 Spec Analyses Arky Materials](#), [ARKY635 Social Identity](#).

e) [ANTH605 Prof Skills For Anthropologists](#) or its equivalent.

Other courses will be required as determined by the student's evaluation committee.

f) A research proposal approved by a committee consisting minimally of three members of the student's supervisory committee, and by the Graduate Program Director. This must be submitted within twenty months of entering the program.

g) A reading ability in a foreign language acceptable to the Department. The student's supervisory committee will decide the manner of demonstrating this ability.

Requirements (a) through (g) must be completed before sitting the written and oral components of the candidacy examination.

h) Normally, two seasons of field work. However, students specializing in laboratory-based topics, like physical anthropology, may substitute an approved program of laboratory work for one of the field work seasons. Students specializing in laboratory-based topics, like physical anthropology, who started their field work between 2019 and 2021 may substitute one or more field work seasons with the approval of their supervisory committee.

During the first two weeks in program, each student will undergo an evaluation. This is not an examination but an assessment of academic background. The specific regulations and procedures covering evaluations and examinations are on file in the Department Office and are available to students. It is the responsibility of every student to become familiar with these regulations.

Field work may be counted towards fulfillment of the full-time study and research requirement.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The Department does not normally give [advanced credit](#).

#### Flexible Grade Option (CG Grade)

The program of Archaeology in the department of Anthropology and Archaeology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Archaeology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Normally only courses at the 500 level or higher may be taken for credit toward a graduate program. No more than two courses may be at the 500 level.

#### Time Limit

Expected completion time is four years and maximum completion time is six years for the doctoral degree.

#### Other Information

The Department has laboratories equipped for anthropometric and osteological analysis, faunal analysis, and microbotanical and ge archaeological research. A number of teaching and comparative archaeological and zooarchaeological collections are maintained. Field equipment including survey, photographic and camping equipment is available.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Department assigns an interim advisor to each student upon arrival. At any time before the end of the first year of studies, each student must select a faculty member to serve as supervisor. The interim advisor may become the supervisor.

Doctoral supervisory committees may be appointed at any time during the first year of studies, but no later than three months after the appointment of the supervisor. The supervisor, in consultation with the student, selects the committee.

### Required Examinations

#### Candidacy

Doctoral students must complete a written thesis proposal, which will be evaluated by the supervisory committee. They must also pass oral and written Field of Study examinations and a second-language proficiency examination. For complete details of the candidacy requirements, see <https://antharky.ucalgary.ca/CandidacyRequirements>.

#### Thesis Examination

Final thesis oral examinations are open.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

##### *Scheduling of the Examination*

All members of the supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance in the form of research and teaching assistantships may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competition scholarships must submit their applications to the Department by January 25.

Funding is provided to students so that they can concentrate on their courses and research. Therefore, a graduate student is not allowed to work for more than 15 hours a week while holding departmental funding. Failure to abide by this policy will result in a decrease in or cancellation of departmental funding.

## Overview

### General Program Information

# UCalgary

Students applying for the MFA degree offered by the Department of Art may choose to identify one of the following formal specializations:

## Specializations:

- Sculpture
- Printmaking
- Photography
- Painting
- Drawing
- Media Art and Technology

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [art.ucalgary.ca/graduate](http://art.ucalgary.ca/graduate)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website at <http://ucalgary.ca/future-students/graduate/explore-programs/art-master-fine-arts-thesis-based>.

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) A four-year Bachelor of Fine Arts degree or equivalent qualification.
- b) A portfolio of 20 images of recent work submitted as a single PDF file. Up to five minutes of video documentation may be submitted as links within this document.
- c) A written statement (no more than 1000 words) of research intent.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

The program core for all Master of Fine Arts students is a minimum of 24 units. Within the first twelve months of the program each student must complete 6 units of 600-level studio course; 6 units of 600-level graduate seminar and Art 605. Three units of 600-level graduate seminar and 6 units of 600-level studio course must be completed in the second twelve months of the program. In some circumstances, the Department may require a student to complete more than the mandatory 24 units.

Typical course sequence is the following:

Year 1:

#### Complete ALL of the following Courses:

- ART605 - Critical Study and Research  
**AND** ART609 - Art Theory and Criticism  
**AND** ART611 - Research Methods in Art  
**AND** ART661.01 - Advanced Studio Practice I  
**AND** ART661.02 - Advanced Studio Practice II

Year 2:

Complete ALL of the following Courses:

- ARHI615 - Conference Course in Art History  
**AND** ART661.03 - Advanced Studio Practice III  
**AND** ART661.04 - Advanced Studio Practice IV

Additional Comments:

#### Additional Program Requirements

##### Type

Completion Requirement

Additional Comments:

### Flexible Grade Option (CG Grade)

The department of Art will not permit the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Expected completion time for the Master of Fine Arts degree is two years. Maximum completion time is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

Additional Comments:

### Supervisory Assignments

Each new student is assigned an interim advisor to assist in the planning of the academic program and in orienting the student to the Department's physical and academic resources. A permanent supervisor is appointed by January 1 of the first academic year of registration. The approval of a permanent supervisor, by the Graduate Program Director, is made after consultation with the student. Supervisors work closely with students in all phases of the program; they have the principal responsibility in assessing the student's performance, and advising the Department Head of the student's progress.

Once the student has finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and one internal or external member. If the student has a co-supervisor, then one additional member is still required. See Supervision for more information.

### Required Examinations

#### Thesis Examination

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must submit their applications to the Department of Art by January 15.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Biological Anthropology to students registered in an existing graduate program. The student will receive the degree offered by the home program:

- Doctor of Philosophy (PhD)
- Master of Science (MSc), thesis-based
- Master of Arts (MA), thesis-based

Given the limited resources, the specialization may, in any year, admit fewer applicants than those who are qualified to undertake graduate studies.

Location: Earth Sciences 852

Program number: 403.220.2665

Fax: 403.282.9562

Email address: <mailto:wwilson@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/anthropology-archaeology/future-students/graduate/programs/biological-anthropology>

## Admissions

### Program Admissions Information

The deadlines for the submission of complete applications is January 15 for September admission and funding.

In addition to Faculty of Graduate Studies [admission](#) requirements, all applicants must meet the minimum standards of the home program. Admission to the specialization requires:

- a) A Bachelor of Arts or Bachelor of Science degree (and Master of Arts degree for admission to the PhD program) in Anthropology, Archaeology, Biology, Zoology, Ecology, or Health Sciences with a GPA of at least 3.30 on a four-point scale in the last two years of program or over the last 60 units.
- b) An example of the applicant's written work: a term paper, research paper, Master of Arts, or honours thesis that the applicant considers representative of their best work. Published work authored by the applicant is also acceptable provided the applicant is the sole or senior author.
- c) A concise statement setting forth the applicant's academic interests and reasons for wishing to pursue graduate work in the specialization. The area of thesis research should also be specified.
- d) An up-to-date curriculum vitae.

### Program Details

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies ([see regulations](#)) and the home program requirements, the Specialization requires:

### Master of Arts / Master of Science

a) Fifteen units, which shall include:

- [ARKY617 Theory & its Appl in Biol Anth](#)
- [ANTH603 Thesis Development](#)
- Any two of the following: [MDSC755 Directed Study](#), [ARKY613 AnalysisOfHumanSkeletalRemain](#), [ANTH635 Primatological Theory](#), [ANTH605 Prof Skills ForAnthropologists](#), or [ANTH613 IssuesMethodology&Primatology](#)

b) One optional course relevant to the proposed research topic.

c) All students are expected to have proficiency in statistics. The supervisor and two other faculty members of the specialization, in concert with the applicant, will determine if additional course work is needed in statistics, depending upon the applicant's background and proposed research area.

d) A season of field work offering appropriate experience for the proposed research (for example, primate field study, archaeological excavation, or field research in human biology), to be approved by the supervisor. However, students specializing in laboratory-based topics (for example, morphological studies or bone chemistry) may substitute an approved program of laboratory work for the field work requirement.

### Doctor of Philosophy

a) Course Requirements:

If students entering the PhD specialization have completed the master's specialization in Biological Anthropology, or if they have completed equivalent courses in another master's program, they will not be required to repeat those courses. Rather, additional courses will be determined at the discretion of the student's supervisory committee. Normally, 18 units, which shall include (unless completed previously):

- [ARKY617 Theory & its Appl in Biol Anth](#)
- [ANTH701 Independent Studies](#)
- Any two of the following: [MDSC755 Directed Study](#), [ARKY613 AnalysisOfHumanSkeletalRemain](#), [ANTH635 Primatological Theory](#), [ANTH605 Prof Skills ForAnthropologists](#), or [ANTH613 IssuesMethodology&Primatology](#)
- Two courses relevant to the proposed research topic

The number of courses required of each student may vary according to their particular needs as determined by the Supervisory Committee. Statistics will be required in the event the student's committee deems it necessary. The courses will be selected based on the student's previous statistics training and the type of data analyses to be conducted in the research.

b) Two seasons of fieldwork offering appropriate experience for the proposed research topic (for example, primate field study, archaeological excavation, or field research in human biology), to be approved by the supervisor. Fieldwork may have been undertaken before entry into the specialization and may be counted toward the fieldwork requirement. Students specializing in laboratory-based topics (for example, morphological studies or bone chemistry) may substitute an approved specialization of laboratory work for the fieldwork requirement.

c) Submission to the supervisory committee of a paper that demonstrates an ability to research and write a paper at a professional level.

d) Proficiency in a second language.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Credit for Undergraduate Courses

Students may apply for no more than one 500-level course for graduate credit, subject to the approval of the Program Director. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

## Time Limit

Expected completion time for the MA and MSc is two years and maximum completion time is four years.

Expected completion time for the PhD is four years and maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

Students will be assigned a supervisor upon admission.

## Research Proposal Requirements

Within twenty months of entering the program, the student, with the supervisor's advice, develops a thesis research proposal. This is then transmitted to the student's supervisory committee for agreement and to the Graduate Program Director of the student's home program for approval and placed on file.

## Required Examinations

Final thesis oral examinations are open.

## Oral Candidacy Examinations

Following the completion of all course work, the research paper and the language requirement, doctoral students sit the Candidacy Examination. In the Biological Anthropology Graduate Specialization, the Candidacy Examination consists of two parts in sequence, as follows: (1) a written component and (2) an oral component.

The oral candidacy examination is required by University regulations and must be held no later than twenty-eight months following initial registration as a full-time graduate student in a PhD program. Students entering the doctoral program with a bachelor's degree, or transferring into a doctoral program from a master's program before the master's program is completed, must attempt the candidacy examinations no later than 36 months after initial registration in the Faculty of Graduate Studies.

The Candidacy Examination in the Biological Anthropology Graduate Specialization consists of a written plus an oral examination administered by the Candidacy Examination Committee, composed of the Supervisory Committee plus two additional members, one of whom must be external to the Specialization if the External is not already a member of the Supervisory Committee.

The Candidacy Examination is an examination of the student's knowledge and abilities to reason, utilize the relevant literature, and to solve problems within the three fields or areas which have been set out.

In consultation with the student, the Supervisory Committee will determine three areas of knowledge for which the student will be responsible in their Candidacy Examination. These topics will be communicated (in writing) to the student, with copies to other members of the Supervisory Committee.

These topics will also be communicated to the two other members of the Candidacy Examination Committee, who must be selected no later than eight weeks prior to the oral examination.

Members of the Candidacy Examination Committee will each submit one or two questions, so that there are at least two questions within each of the three areas. The supervisor will select six questions from those submitted, and provide them to the student at least five weeks prior to the Oral Candidacy Examination. The student will select one question from each of the three areas for a total of three questions. The student will have two weeks in which to prepare answers to these questions as a take-home, open-book exam. Each answer should be approximately 6000 words. Copies of the completed examination will be distributed to all members of the Examination Committee. The Committee will assess the written exam on a Pass/Fail basis. The oral examination is conducted in accordance with Faculty of Graduate Studies regulations.

In the oral component of the Candidacy Examination, the written examinations will serve as the basis from which the examination shall proceed, but examiners are not limited to the written component in framing the questions asked, and questioning may range into cognate areas, at the discretion of the Neutral Chair.

Students must pass both the written and oral exams in order to pass the candidacy exam.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the home program by January 2.

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Communication and Media Studies explores the ways in which communication constructs and reflects society and culture. The program emphasizes the theory, criticism, and history of communication through traditional media, new media and popular culture. It also focuses on the theory, critique and production of informative, persuasive and professional discourse in a range of public, media and organizational contexts (e.g., discourses related to identity, health, technology, food and food marketing and the environment).

The program aims to educate flexible and articulate analysts, researchers and practitioners for a wide range of academic, public and professional contexts. It provides graduates with the knowledge, skill and discernment to communicate ideas effectively and to investigate communication in and across a variety of media including speech, writing, television, film, radio and digital media. Our co-operative education and experiential learning opportunities enable students to develop and apply their skills in non-academic contexts.

The BCMS is offered in partnership with SAIT Polytechnic and is intended for students who want the broad interdisciplinary base of knowledge provided by a university degree combined with practical skills in public relations, journalism, new media production, or radio, television, and broadcast news provided by a professional diploma program at SAIT or other approved

program. A minor program is also offered.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

Note: Students must apply separately to an approved diploma program and meet all its admission requirements and application deadlines.

When a student presents a SAIT or equivalent diploma for block transfer credit to the Bachelor of Communication and Media Studies degree, the grade point average for admission to the Communication and Media Studies program will be calculated using the most recently completed 30 units taken to complete the diploma.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree Requirements, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs

**Exception to junior credit limit:** Students in the BCMS program are permitted an extra 6 units in junior level courses for a maximum of 54 units at the junior or 200 level. Junior courses transferred as part of the diploma (24 units) count towards this maximum.

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 36 credits from the following:

- Core Courses: 24 units Communication and Media Studies 201, 203, 313, 369, 371, 381, 581, Communication and Culture 305
- 12 units from courses labelled Communication and Media Studies (COMS) or Film 451, of which 3 units must be at the 400 level or above

#### Other Requirement

*Applicable Diploma:* Completion of one of the following two-year diploma programs from SAIT Polytechnic, or an approved equivalent, with a grade point average of 2.00 on all courses.

- Journalism (Print/Online Journalism; Photojournalism); New Media Production and Design; Radio, Television and Broadcast News; Film and Video Production; Graphic Communications and Print Technology

#### Notes:

- Students who are unsuccessful in applying to the post-secondary institution offering the diploma may transfer to the four-year Bachelor of Arts in Communication and Media Studies at the University of Calgary, or any other University of Calgary program for which they qualify. Courses already completed toward the Bachelor of Communication and Media Studies may be applied toward the Bachelor of Arts in Communication and Media Studies.
- Students completing their diploma in the semester prior to graduation will need to ensure that a transcript recording the diploma conferral is received by the University of Calgary by the transcript deadline date. Due to the processing time required, transcripts received after the deadline will be considered for the next convocation period. Please contact the Arts Students' Centre for further information.

#### Additional Comments:

#### Degree Options

##### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

The Bachelor of Communication and Media Studies and the Bachelor of Arts in Communication and Media Studies cannot be taken in conjunction with each other.

#### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Film Studies situates motion pictures within a wider culture of images and sounds, comprising both contemporary media and diverse historical practices. The program offers students the analytical skills and historical and theoretical frameworks to critically assess contemporary visual culture, and in this way helps to prepare them for careers in film and media criticism; film programming and production; work in cultural institutions; and university research and teaching.

The Department offers a Bachelor of Arts (BA) in Film Studies and a Bachelor of Film Studies (BFS). Students taking a BA in Film Studies will develop a broad understanding of the medium, considering film as an art form, as a cultural industry, and as an innovative and developing technology with social, cultural, and political significance. Opportunities for further concentration are

available via the BA (Honours) in Film Studies program. The BFS is offered in partnership with SAIT Polytechnic and is intended for students who want the broad interdisciplinary base of knowledge provided by a university degree combined with practical skills in film, video and new media production.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

**Note:** Students must apply separately to SAIT Polytechnic and meet all its admission requirements and application deadlines.

When a student presents a SAIT or equivalent diploma for block transfer credit to the Bachelor of Film Studies degree, the grade point average for admission to the Film Studies program will be calculated using the most recently completed 30 units taken to complete the diploma.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs

**Exception to junior credit limit:** Students in the BFS program are permitted an extra 6 units in junior level courses for a maximum of 54 units at the junior or 200 level. Junior courses transferred as part of the diploma (24 units) count towards this maximum.

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Film Studies

##### Type

Completion Requirement

In addition to 48 units of transfer credits from the diploma, students must fulfill the following requirements, with a minimum of 36 units and a maximum of 42 units from the Field of Film Studies while fulfilling the Program Requirements.

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Film Studies

#### Additional Comments:

#### Program Requirement

## Type

### Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 15 credits from the following:

- Core Courses: 9 units: Film 201, 321; Communication and Media Studies 581
- Core Courses: 3 units from Film 331 or 333
- Advanced Courses: 3 units from courses labelled Film (FILM) at the 400 level or above

#### Major-Field - Required Options

- *Film Options*: 21 units from Courses Constituting the Field of Film Studies, with a maximum of 6 units from courses not labelled Film.

##### Earn at least 21 credits from the following:

- Courses Constituting the Field of Film Studies

#### Additional Comments:

- Students who are unsuccessful in applying to SAIT may transfer to the four-year Bachelor of Arts in Film Studies at the University of Calgary, or to any other University of Calgary program for which they qualify. Courses already completed toward the Bachelor of Film Studies (BFS) may be applied toward the Bachelor of Arts in Film Studies.
- Students completing their diploma in the semester prior to graduation will need to ensure that a transcript recording the diploma conferral is received by the University of Calgary by the transcript deadline date. Due to the length of processing time required, transcripts received after the deadline will be considered for the next convocation period. Please contact the Arts Students' Centre for further information.

## Degree Options

### Type

#### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

The Bachelor of Film Studies and the Bachelor of Arts in Film Studies also may not be taken in conjunction with each other.

#### Additional Comments:

## Overview

### General Program Information

The MSc is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the MSc program as part-time students only with permission from the CMD Advisory Committee.

### Specializations:

- Wearable T

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-master-science-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- A curriculum vitae.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

15 units of coursework:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 3-unit Computer Science graduate-level course;
- 3-unit graduate-level course chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music; and
- Two 3-unit graduate-level courses.

Additional courses may be required on a case-by-case basis as determined by the Supervisor and CMD Director.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

## Time Limit

Expected completion time is two years for the MSc, and maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

## Thesis Examination

In addition to the Faculty of Graduate Studies thesis requirements, the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

#### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

#### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

### General Program Information

The PhD is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the PhD program as part-time students only with permission from the CMD Advisory Committee.

### Specializations:

- [Wearable T](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- a) While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- b) A master's degree from an accredited/recognized institution.
- c) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- e) Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- f) A curriculum vitae.
- g) Two reference letters.

For exceptional students applying directly to the PhD program with only a bachelor's degree, all the requirements for a Master of Science apply, plus a demonstrated exceptional research and/or creative ability. These direct entry students will be considered on a case-by-case basis.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

Doctoral students must complete at least three graduate-level courses (9 units) while enrolled as a PhD student in Computational Media Design at the University of Calgary.

As agreed upon between the student and supervisory committee, breadth\* courses may be required as follows:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 6 units of Computer Science graduate-level courses;
- 6 units of graduate-level courses chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music.

\*Alternative breadth courses that satisfy the student, the supervisor(s), the supervisory committee, and the CMD Director may be proposed in special cases.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

## Time Limit

Expected completion time for doctoral students entering with a master's degree is four years; maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

Doctoral Supervisory Committee: The Doctoral Supervisory Committee should be constituted by the supervisor and co-supervisor in consultation with the student and must be approved by the CMD Director and sent to the Faculty of Graduate Studies for confirmation. It will consist of the supervisor and co-supervisor, and two additional members. The two additional committee members may be external to the student's program. At least one of the members of the Supervisory Committee should have had supervisory experience at the doctoral level.

## Candidacy

In addition to the Faculty of Graduate Studies [candidacy requirements](#), the program requires:

Doctoral students must complete a written thesis proposal, a written field of study examination, and an oral examination of the thesis proposal. For complete details of the requirements, see the CMD candidacy requirements document available at <https://science.ucalgary.ca/computational-media-design/current-students/degree-requirements>.

## Thesis Examination

In addition to the Faculty of Graduate Studies [thesis requirements](#), the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

The CMD PhD student's External Examiner will be an international expert in the research/creative practice area of the student's research. Faculty of Graduate Studies Conflict of Interest Policy applies (see <https://grad.ucalgary.ca/current-students/thesis-based-students/supervision/conflict-interest>).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Communication and Media Studies explores the ways in which communication constructs and reflects society and culture. The program emphasizes the theory, criticism, and history of communication through traditional media, new media and popular culture. It also focuses on the theory, critique and production of informative, persuasive and professional discourse in a range of public, media and organizational contexts (e.g., discourses related to identity, health, technology, food and food marketing and the environment).

The program aims to educate flexible and articulate analysts, researchers and practitioners for a wide range of academic, public and professional contexts. It provides graduates with the knowledge, skill and discernment to communicate ideas effectively and to investigate communication in and across a variety of media including speech, writing, television, film, radio and digital media. Our co-operative education and experiential learning opportunities enable students to develop and apply their skills in non-academic contexts.

The Department offers a Bachelor of Arts (BA) in Communication and Media Studies and a Bachelor of Communication and Media Studies (BCMS). Opportunities for further concentration are available via the BA (Honours) in Communication and Media Studies.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Communication and Media Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Communication and Media Studies while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Communication and Media Studies

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 42 credits from the following:**

- Core Courses: 24 units Communication and Media Studies 201, 203, 313, 369, 371, 381, 591; Communication and Culture 305
- 18 units from courses labelled Communication and Media Studies or Film 451

Major-Field - Required Options

**Earn at least 6 credits from the following:**

- Courses Constituting the Field of Communication and Media Studies

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

### Overlapping Programs

The Bachelor of Communication and Media Studies and the Bachelor of Arts in Communication and Media Studies cannot be taken in conjunction with each other.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Communication and Media Studies explores the ways in which communication constructs and reflects society and culture. The program emphasizes the theory, criticism, and history of communication through traditional media, new media and popular culture. It also focuses on the theory, critique and production of informative, persuasive and professional discourse in a range of public, media and organizational contexts (e.g., discourses related to identity, health, technology, food and food marketing and the environment).

The program aims to educate flexible and articulate analysts, researchers and practitioners for a wide range of academic, public and professional contexts. It provides graduates with the knowledge, skill and discernment to communicate ideas effectively and to investigate communication in and across a variety of media including speech, writing, television, film, radio and digital media. Our co-operative education and experiential learning opportunities enable students to develop and apply their skills in non-academic contexts.

The Department offers a Bachelor of Arts (BA) in Communication and Media Studies and a Bachelor of Communication and Media Studies (BCMS). Opportunities for further concentration are available via the BA (Honours) in Communication and Media Studies.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section, [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1. Students taking Majors offered by the Department are eligible to apply for the Honours Program only if they will have completed at least 90 units prior to admission in the Fall Term.

Honours program applications to the department must include a preliminary Honours thesis proposal and the signature of a faculty member who has agreed to serve as the student's Honours thesis supervisor. Students are strongly advised to secure a supervisor by January 20. The Honours program application form is available at [arts.ucalgary.ca/communication-media-film/future-students/undergraduate/programs/honours-program](https://arts.ucalgary.ca/communication-media-film/future-students/undergraduate/programs/honours-program).

Honours students must register in Communication and Media Studies 595 and 597 or Film 595 and 597. For further information, see the department website or consult with the Honours Program Co-ordinator.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

## Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [\*\*3. Faculty of Arts Regulations.\*\*](#)

### Additional Comments:

## Courses Constituting the Field of Communication and Media Studies

### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Communication and Media Studies while fulfilling the Program Requirements.

### Earn at least 60 credits from the following:

- Courses Constituting the Field of Communication and Media Studies

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

### Major-Field - Specified Courses

### Earn at least 51 credits from the following:

- Core Courses: 24 units Communication and Media Studies 201, 203, 313, 369, 371, 381, 591; Communication and Culture 305
- 21 units from courses labelled Communication and Media Studies (COMS) or Film 451.
- Undergraduate Thesis: 6 units Communication and Media Studies 595 and 597

A grade of "B-" or higher in Communication and Media Studies 595 and 597 is required for graduation with the BA Honours degree.

### Major-Field - Required Options

### Earn at least 9 credits from the following:

- Courses Constituting the Field of Communication and Media Studies

### Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

## Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

## Overlapping Programs

The Bachelor of Communication and Media Studies and the Bachelor of Arts in Communication and Media Studies cannot be taken in conjunction with each other.

## Additional Comments:

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [commfilm.ucalgary.ca/graduate](http://commfilm.ucalgary.ca/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Graduate program in Communication and Media Studies requires:

- a) A statement of research intent (250-500 words).
- b) Two samples of written work.
- c) A detailed curriculum vitae.
- d) A completed baccalaureate degree in Communications Studies, Culture Studies or related field.
- e) Two completed Reference Forms.

There is no assurance of consideration for funding for part-time students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

#### Type

#### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Graduate Program in Communication and Media Studies requires the following:

- a) Nine units:

**Complete ALL of the following Courses:**

- COMS601 - Interdisciplinary Approaches To Communications Studies  
**AND** COMS613 - Communication Theory  
**AND** COMS615 - Research Methods

b) Nine units of electives.

Three units of the electives may be selected from other graduate programs; 3 units of the electives may be **COMS711 Directed Studies**, Directed Studies.

Note: Master's students must take 9 units in each of fall and winter terms in the first year of their program to be considered full-time.

**Additional Comments:**

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

**Advanced Credit** may be granted to students admitted to the MA program. Approval of the Graduate Program Director is required.

**Flexible Grade Option (CG Grade)**

The program of Communication and Media studies in the department of Communication, Media and Film will not permit the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Credit for undergraduate courses toward a master's program will be given only in the case of the course being developed for graduate-level work.

**Time Limit**

Expected completion time is two years of full-time study or three years of part-time study for the Master of Arts degree. Maximum completion time is four years.

**Supervisory Assignments, Research Proposal and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

Students are not required to choose a supervisor before they are admitted. An interim advisor is assigned by the program in the first year. The student must choose a thesis supervisor by the beginning of the second year.

**Research Proposal**

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

Thesis supervisor must approve proposal.

## Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal or external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on Awards, see the [Awards and Financial Assistance](#) section of this Calendar and [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Students applying for the Graduate Awards Competition must submit their applications to the Department of Communication, Media and Film Graduate Programs Office by January 15.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [commfilm.ucalgary.ca/graduate](http://commfilm.ucalgary.ca/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Graduate program in Communication and Media Studies requires:

- a) A statement of research intent (500-1000 words).
- b) Two samples of written work.
- c) A detailed curriculum vitae.
- d) Completed baccalaureate and master's degrees in Communications Studies, Culture Studies, or equivalent.
- e) Two completed Reference Forms.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Graduate Program in Communication and Media Studies requires the following:

a) Nine units:

**Complete ALL of the following Courses:**

- COMS601 - Interdisciplinary Approaches To Communications Studies  
**AND** COMS615 - Research Methods  
**AND** COMS713 - PhD Theory Seminar

b) Nine units electives.

Three units of the electives may be selected from other graduate programs; 3 units of the electives may be [COMS711 Directed Studies](#), Directed Studies.

Note: PhD students who can show that they have taken [COMS601 Interdisc App To Coms Studies](#) or equivalent may substitute an elective.

##### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

[Advanced Credit](#) may be granted to students admitted to the PhD program. Approval of the Graduate Program Director is required.

### Flexible Grade Option (CG Grade)

The program of Communication and Media studies in the department of Communication, Media and Film will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Students in the doctoral program will not be given credit for undergraduate courses.

### Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

## Supervisory Assignments

Students are not required to choose a supervisor before they are admitted. An interim advisor is assigned by the program in the first year. The student must choose a thesis supervisor by the beginning of the second year.

By June of the first year in program, the student must submit their proposed field of research and the name of a proposed supervisor for approval by the program. The supervisory committee must be appointed no later than three months after the appointment of the supervisor.

## Research Proposal

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

Students must submit a written thesis proposal, which is approved by their Supervisory Committee.

See [commfilm.ucalgary.ca/candidacy-requirements](http://commfilm.ucalgary.ca/candidacy-requirements) for further information.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for **Candidacy** and **Thesis Examinations**, the Department requires:

### Candidacy

Doctoral students must pass oral and written Fields of Study examinations. For complete details of the examination format and other candidacy requirements, see [commfilm.ucalgary.ca/candidacy-requirements](http://commfilm.ucalgary.ca/candidacy-requirements).

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal or external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on Awards, see the **Awards and Financial Assistance** section of this Calendar and [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Students applying for the Graduate Awards Competition must submit their applications to the Department of Communication, Media and Film Graduate Programs Office by January 15.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](http://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- a) A completed Bachelor of Music degree (or equivalent), including study in composition.
- b) A portfolio of at least three recent compositions, together with recordings (where available). Applicants wishing to specialize in electroacoustic composition must submit recordings.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI613 Sem in Theory & Composition](#), [MUSI631 Res Tech & Biblio of Music](#) and [MUSI641 Composition](#)
- one of [MUSI641 Composition](#) or [MUSI653 Projects in Computer Music](#)
- 3-unit graduate Music course, and
- 6 units of approved graduate-level courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be either a substantial creative project and an accompanying descriptive essay related to the project, or a portfolio of creative work, the majority of which must have been created in the second year of residency, and an accompanying descriptive essay related to the portfolio. Normally, the project or portfolio will have been presented in a public recital prior to the thesis defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the Flexible Grade Option (CG Grade) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is five years for the Master of Music programs.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

### Thesis Examinations

In addition to Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar and the program's website.

## Overview

# UCalgary

## General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- A recognized master's degree or equivalent.
- One-page letter detailing their specific reasons for pursuing graduate study.
- Two reference letters.
- A portfolio of works, together with recordings, if available, and an extended research paper.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- 6 units of [MUSI741 Composition](#).
- 6 units of [MUSI613 Sem in Theory & Composition](#), and
- 6 units of additional approved graduate courses.

## Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

The thesis is interpreted to be a substantial creative project and an accompanying analytical/research paper approved by the supervisory committee.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is six years for the doctoral program.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### Required Examinations

#### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

#### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

##### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

The course-based Master of Strategic Studies is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-master-strategic-studies-course-based>.

In addition to the **admission** requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

- a) A four-year bachelor's degree with a grade point average of at least 3.40 on a four-point scale.
- b) A writing sample.
- c) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test; a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

MSS, course-based students will complete 24 units of coursework consisting of:

- a) 12 units of core courses:

**Complete ALL of the following Courses:**

- HTST655 - (STST 655) Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST647 - 21st Century Security Issues  
**AND** STST610 - Questions and Methods  
**AND** STST612 - Questions and Methods II

- b) 9 units of additional graduate courses which may include, but is not limited to:

**Complete ANY of the following Courses:**

- ANTH641 - Seminar in Civil-Military Relations
  - OR HTST637 - Topics in Military History
  - OR HTST655 - (STST 655) Classics Of Strategy
  - OR POLI619 - War and Interpretation
  - OR POLI633 - US Security Policy
  - OR POLI643 - Law and Armed Conflict
  - OR POLI675 - Selected Topics in Advanced Comparative Politics
  - OR POLI681 - Advanced Analysis of International Relations
  - OR POLI687 - Advanced Studies in Canadian Arctic Security
  - OR POLI689 - Unconventional Warfare
  - OR STST609 - The Canadian Military in the Second World War
  - OR STST611 - Canadian Military Studies
  - OR STST613 - The Canadian Military in the First World War
  - OR STST649 - Special Topics in Military, Security and Strategic Studies
  - OR STST651 - Reading Seminar
  - OR STST653 - Research Seminar
  - OR STST663 - Wars - Causes & Aftermaths

With the approval of the Graduate Program Director, any graduate course pertinent to the student's studies may be taken. Also consult the program website <https://arts.ucalgary.ca/centre-military-security-strategic-studies> for a list of other recommended graduate courses.

### Additional Comments:

c) STST653 Research Seminar (3 units) research paper

\*Skills Internship Option: An extra to degree option available to students upon completion of all degree requirements. Through the Faculty of Graduate Studies students may take a Transformative Talent Internship designed to explore career options and develop practical skills: <https://grad.ucalgary.ca/my-gradskills/experiential-learning/internships>.

### Additional Program Information

#### Type

Completion Requirement

### Additional Comments:

### Advanced Credit

In the course-based master's program, advanced credit may be given for a maximum of two courses (6 units) at the senior undergraduate (500) level. The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

### Flexible Grade Option (CG Grade)

The Centre for Military, Security and Strategic Studies for our MSS course-based program will not permit the Flexible Grade Option (CG Grade) for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

With the approval of the Graduate Director, students enrolled in the course-based MSS program may apply to take one 500-level course for graduate credit but are required to complete additional requirements for the course.

## Time Limit

Expected completion time is one year for the course-based MSS. Maximum completion time is four years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-master-strategic-studies-thesis-based>.

In addition to the [admission](#) requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

- a) A four-year bachelor's degree with a grade point average of at least 3.40 on a four-point scale.
- b) A writing sample.
- c) An agreement to supervise by a potential supervisor.
- d) A research proposal.
- e) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test; a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- f) Two letters of reference.
- g) For applicants in the thesis-based MSS, email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, the Centre for Military, Security and Strategic Studies requires that all master's students complete core courses and areas of concentration courses.

MSS, thesis-based students will complete 21 units of coursework consisting of:

a) 12 units of core courses:

**Complete ALL of the following Courses:**

- HTST655 - (STST 655)Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST610 - Questions and Methods  
**AND** STST612 - Questions and Methods II  
**AND** STST647 - 21st Century Security Issues

b) 9 units of additional graduate courses which may include, but are not limited to:

**Complete ANY of the following Courses:**

- ANTH641 - Seminar in Civil-Military Relations  
**OR** HTST637 - Topics in Military History  
**OR** HTST655 - (STST 655)Classics Of Strategy  
**OR** POLI619 - War and Interpretation  
**OR** POLI633 - US Security Policy  
**OR** POLI643 - Law and Armed Conflict  
**OR** POLI675 - Selected Topics in Advanced Comparative Politics  
**OR** POLI681 - Advanced Analysis of International Relations  
**OR** POLI687 - Advanced Studies in Canadian Arctic Security  
**OR** POLI689 - Unconventional Warfare  
**OR** STST609 - The Canadian Military in the Second World War  
**OR** STST611 - Canadian Military Studies  
**OR** STST613 - The Canadian Military in the First World War  
**OR** STST649 - Special Topics in Military, Security and Strategic Studies  
**OR** STST651 - Reading Seminar  
**OR** STST653 - Research Seminar  
**OR** STST663 - Wars - Causes & Aftermaths

#### Additional Comments:

With the approval of the Graduate Program Director, any graduate course pertinent to the student's studies may be taken. Also consult the program website <https://arts.ucalgary.ca/centre-military-security-strategic-studies> for a list of other recommended graduate courses.

MSS thesis-based students are required to present their supervisor with a formal thesis proposal normally no later than the end of their second term (usually, the end of the Winter Term of their first year for students who entered the program as thesis-based students; for students transferring from the course-based program, where at all possible the same general timeline should apply).

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

## Flexible Grade Option (CG Grade)

The Centre for Military, Security and Strategic Studies for our MSS thesis-based program will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

With the approval of the Graduate Director, students enrolled in the thesis-based MSS program may apply to take one 500-level course for graduate credit but are required to complete additional requirements for the course.

## Time Limit

Expected completion time is two years for the thesis-based MSS. Maximum completion time is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An incoming student for the thesis-based program must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

### Thesis Examination

In addition to the Faculty of Graduate Studies [Thesis Examination](#) requirements, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Doctoral students will normally be admitted as full-time students. In consultation with the Faculty of Graduate Studies, the

Graduate Program Director may, however, approve requests for part-time registration or transfer from full-time to a part-time status.

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-doctor-philosophy-thesis-based>.

In addition to the **admission** requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

Applicants will be admitted only if the CMSS Graduate Committee is satisfied that adequate supervision is likely to be available for the duration of their studies. Successful applicants should be aware that admission to the program depends upon a match between student and faculty interests, as well as availability of faculty supervision. Students are also advised to consult the Faculty of Graduate Studies and the **academic regulations** section in this calendar.

Prerequisites for admission to the PhD program are:

- a) A completed master's degree.
- b) Normally, a minimum of two years of professional, on-going experience (or equivalent) in the security and defence field.
- c) A GPA of 3.70 on a four-point scale over all completed graduate courses in the master's program; 3.40 in the undergraduate program over the last 60 units or two years of study.
- d) A detailed statement of the proposed thesis research explaining how the thesis would relate to one's work experience and/or professional career goals.
- e) A representative piece of written work, normally a master's thesis chapter or major research paper.
- f) A tentative agreement from a faculty member to supervise. Students need to contact potential supervisors at the beginning of the application process.
- g) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test; a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- h) Two letters of reference.
- i) Email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements:

Doctoral students will normally complete 15 units of coursework consisting of:

**Complete ALL of the following Courses:**

- HTST655 - (STST 655) Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST647 - 21st Century Security Issues  
**AND** STST751 - Reading Seminar  
**AND** STST753 - Research Seminar

**Additional Comments:**

It is strongly recommended that PhD students also take [STST610 Questions and Methods](#) and [STST612 Questions and Methods II](#).

\*For candidacy examinations, students have two major fields of study. One of these will be strategic studies and the other the dissertation area. Students will be required to take 3 units preparation in each field, namely [STST751 Reading Seminar](#) and [STST753 Research Seminar](#).

**Additional Program Information**

Type

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

**Flexible Grade Option (CG Grade)**

The Centre for Military, Security and Strategic Studies will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Time Limit**

Expected completion time for the PhD in Military and Strategic Studies is four years and maximum completion time is six years.

**Supervisory Assignments and Required Examinations**

Type

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

An incoming student must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

The Supervisory Committee should be appointed as quickly as possible but no later than three months after the appointment of the Permanent Supervisor.

## Required Examinations

In addition to the Faculty of Graduate Studies [Thesis Examination](#) requirements, the program requires:

### Candidacy

Doctoral students must complete a written thesis proposal, which is approved by their Supervisory Committee in a thesis proposal meeting, as well as pass oral and written Field of Study examinations. For complete details of candidacy requirements and examination format, see

[https://www.ucalgary.ca/pubs/calendar/grad/current/cmss.ucalgary.ca/phd/program\\_requirements](https://www.ucalgary.ca/pubs/calendar/grad/current/cmss.ucalgary.ca/phd/program_requirements).

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Program is suspended and is not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts requirements, Music requires that all applicants submit:

- a) A completed Bachelor of Music degree, including study in conducting.
- b) Demonstrated ability in an audition, which can be met in two ways:
  - A video of approximately fifteen minutes.
  - A rehearsal of a University ensemble (during Fall and early Winter).
- c) Demonstrated competence on a major instrument or voice.
- d) One-page letter detailing their specific reasons for pursuing graduate study.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- [MUPF632 Advanced Choral Conducting](#) or [MUPF634 Advanced Instrumental Conducting](#)
- 3-unit graduate course in Music Theory, Composition, Sonic Arts or Music History and Literature
- 6 units of graduate Music courses, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be two public performances, on or off campus, with University or community ensembles. At least one Canadian work should be included in one of the recitals. The examining committee will evaluate the candidate's performance in both of the recitals. Recital proposals are to be submitted to the Graduate Program Administrator for approval by the Graduate Committee at least two months before each performance.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is five years for the Master of Music programs.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

The purpose of the graduate program in Clinical Psychology is to prepare students for careers as doctoral-level clinical psychologists in research, academic, and applied settings. In the course of doctoral training students also are required to complete the Master of Science (MSc) degree. However, consistent with its goal of doctoral training, the program only admits students who wish to pursue the doctoral degree. Students will be able to emphasize one of three areas of interest: adult clinical psychology, child clinical psychology or clinical neuropsychology.

Students registered in master's thesis-based and doctoral programs will be considered full-time. The program does not offer a part-time option.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [psyc.ucalgary.ca/graduate-program/program-clinical-psychology](http://psyc.ucalgary.ca/graduate-program/program-clinical-psychology)

## Admissions

### Program Admissions Information

The deadline for complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/clinical-psychology-master-science-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/clinical-psychology-master-science-thesis-based).

In addition to the Faculties of Graduate Studies and Arts **requirements**, the program requires:

- a) An honours degree (or equivalent) in psychology or related discipline with a minimum grade point average of 3.60 on a four-point scale in the last 60 units to be considered for entry, although competition for the program is such that higher grade point averages are typical of students who are admitted.
- b) A statement of research and professional interests (maximum 500 words), including the specification of prospective research supervisors from among current Program faculty.
- c) A research proposal.
- d) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), or an IELTS score of 7.5, or a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- e) Two academic reference letters.

Additional information about applying to the Clinical Psychology program can be found in the document **Important Things to Know about our Admissions Process** at: <https://arts.ucalgary.ca/psychology/future-students/graduate/programs/clinical-psychology>.

Master of Science students must formally apply and be approved by the program and the Faculty of Graduate Studies for admission to the doctoral program upon completion of Master of Science requirements.

### Undergraduate Breadth Courses

In preparation for graduate studies, students are strongly encouraged to take the following senior-level undergraduate courses:

- 3 units in the history and systems of psychology (e.g., Psychology 305, 405 or equivalent)
- 6 units in biological bases of behaviour (e.g., Psychology 369, 375, 469, 471, 473, 475, 478, 479 or equivalents)
- 6 units in cognitive-affective bases of behaviour (e.g., Psychology 365, 373, 455, 463 or equivalents)
- 6 units in social bases of behaviour (e.g., Psychology 345, 442, 443, 447 or equivalents)
- 6 units in individual behaviour (e.g., Psychology 383, 385, 431, 492 or equivalents).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Complete ALL of the following Courses:

- PSYC601 - History of Psychology  
**AND** PSYC615 - Analysis of Variance  
**AND** PSYC617 - Multivariate Data Analysis  
**AND** PSYC623 - Functional Neuroanatomy  
**AND** PSYC650 - Clinical Research  
**AND** PSYC651 - Development and Psychopathology  
**AND** PSYC659 - Ethics and Professional Issues  
**AND** PSYC671 - Adult Assessment  
**AND** PSYC673 - Child Assessment  
**AND** PSYC680 - Lifespan Psychotherapy

- a 3-unit elective selected from graduate-level Psychology courses with approval by the Graduate Program Director
- Practicum I\*

## Practicum Requirements

Practicum I (MSc) and Advanced Practicum I and II (PhD) are milestone requirements of the program. Advanced Practicum III (PhD) is an optional practicum milestone.

- Students must successfully complete these supervised practicums with a maximum of 14 hours a week for a maximum of 10 months.
- Each practicum involves a supervised training experience in an approved clinical setting.
- Practicums provide advanced in-depth exposure to specific clinical populations and to the application of various psychological assessment and intervention strategies and techniques.
- Only students who are registered in the program may undertake any of the Practicums.
- The specific requirements of the Practicums are established on a student-by-student basis.
- Practicums will not be included in GPA calculations.
- Students may request to take an additional practicum called Advanced Practicum III to be added to either a Master or Doctoral program if requested by the student and agreed to by the supervisor.

**Additional Comments:**

### Additional Program Information

#### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

Advanced Credit may be given for up to 12 units of graduate work, if this work is consistent with the program's requirements.

## Flexible Grade Option (CG Grade)

The Clinical Psychology program in the Psychology Department will not permit the Flexible Grade Option (CG Grade) for any course offered by the Clinical Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Students admitted to the program who completed undergraduate breadth courses or their equivalents (see Admissions) may be exempt from comparable breadth requirements in their graduate program.

## Time Limit

It is expected that students will complete the MSc thesis within 2 years. Students in the MSc program must complete all requirements within 4 registration years. Students who have taken three years to complete all requirements for the master's degree will normally not be admitted into the doctoral program. It is possible for students to complete the MSc and PhD program within 5 years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

**Additional Comments:**

## **Supervisory Assignments**

Program students must have a research supervisor at all times. Supervisors are arranged by mutual consent of student and faculty member, and are consistent with the focus of the student's research work. Master's level students must have a supervisory committee consisting of at least three members, with at least one who is a member of the core clinical faculty.

## **Research Proposal**

Students in the program must complete both a master's thesis and doctoral thesis, according to the criteria set by the Faculty of Graduate Studies. These research projects typically involve the design of a research question and research project, the collection, analysis and interpretation of original data, and the preparation of a written document consistent with good scholarship. Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

## **Thesis Examinations**

Final thesis oral examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to qualified students. Applicants and program students are strongly encouraged to apply for internal and external awards. For information on Awards, see the [\*\*Awards and Financial Assistance\*\*](#) section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

## **Overview**

### **General Program Information**

The purpose of the graduate program in Clinical Psychology is to prepare students for careers as doctoral-level clinical psychologists in research, academic, and applied settings. In the course of doctoral training students also are required to complete the [\*\*MSCT Clini\*\*](#) degree. However, consistent with its goal of doctoral training, the program only admits students who wish to pursue the doctoral degree. Students will be able to emphasize one of three areas of interest: adult clinical psychology, child clinical psychology or clinical neuropsychology.

Students registered in master's thesis-based and doctoral programs will be considered full-time. The program does not offer a part-time option.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [psyc.ucalgary.ca/graduate-program/program-clinical-psychology](http://psyc.ucalgary.ca/graduate-program/program-clinical-psychology)

## Admissions

### Program Admissions Information

The deadline for complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/clinical-psychology-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/clinical-psychology-doctor-philosophy-thesis-based)

In addition to the Faculty of Graduate Studies **admission** requirements and Faculty of Arts requirements, the program requires:

- a) An honours degree (or equivalent) in psychology or related discipline with a minimum grade point average of 3.60 on a four-point scale in the last 60 units to be considered for entry, although competition for the program is such that higher grade point averages are typical of students who are admitted.
- b) A statement of research and professional interests (maximum 500 words), including the specification of prospective research supervisors from among current Program faculty.
- c) A research proposal.
- d) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), or an IELTS score of 7.5, or a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- e) Two academic reference letters.

Additional information about applying to the Clinical Psychology program can be found in the document **Important Things to Know about our Admissions Process** at: <https://arts.ucalgary.ca/psychology/future-students/graduate/programs/clinical-psychology>.

Master of Science students must formally apply and be approved by the program and the Faculty of Graduate Studies for admission to the doctoral program upon completion of Master of Science requirements.

### Undergraduate Breadth Courses

In preparation for graduate studies, students are strongly encouraged to take the following senior-level undergraduate courses:

- 3 units in the history and systems of psychology (e.g., Psychology 305, 405 or equivalent)
- 6 units in biological bases of behaviour (e.g., Psychology 369, 375, 469, 471, 473, 475, 478, 479 or equivalents)
- 6 units in cognitive-affective bases of behaviour (e.g., Psychology 365, 373, 455, 463 or equivalents)
- 6 units in social bases of behaviour (e.g., Psychology 345, 442, 443, 447 or equivalents)
- 6 units in individual behaviour (e.g., Psychology 383, 385, 431, 492 or equivalents).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department requires:

- **PSYC625 Clinical Neuropsychology, PSYC627 Neuropsychological Testing, and PSYC750.**
- 3 units in each of the four breadth areas. This requirement may be satisfied by completing **PSYC750 Adv Seminar In Clinical Psyc** and other graduate Psychology courses selected with approval by the Graduate Program Director.
  1. Biological bases of behaviour;
  2. cognitive-affective bases of behaviour;
  3. social bases of behaviour; and
  4. individual behaviour.
- Advanced Practicum I, Advanced Practicum II\*

\*See Practicum and Internship Requirements for further information.

## Practicum Requirements

Practicum I and Advanced Practicum I and II are milestone requirements of the program. Advanced Practicum III is an optional practicum milestone.

- Students must successfully complete these supervised practicums with a maximum of 14 hours a week for a maximum of 10 months.
- Each practicum involves a supervised training experience in an approved clinical setting.
- Practicums provide advanced in-depth exposure to specific clinical populations and to the application of various psychological assessment and intervention strategies and techniques.
- Only students who are registered in the program may undertake any of the Practicums.
- The specific requirements of the Practicums are established on a student-by-student basis.
- Practicums will not be included in GPA calculations.
- Students may request to take an additional practicum called Advanced Practicum III to be added to either a Master or Doctoral program if requested by the student and agreed to by the supervisor.

## Pre-Doctoral Internship Requirements

12-month Pre-Doctoral Internship is a milestone requirement of the program.

- Students must successfully complete a 12-month, full-time supervised training experience in an approved clinical setting.
- Only students who are registered in the program and in their final year of study may undertake the Doctoral Internship.
- The Internship includes intensive exposure to various professional issues, the opportunity to work with a diverse range of clinical populations and problems, and advanced training in the use of specific psychological assessment and intervention strategies.
- The specific requirements of the Doctoral Internship are established on a student-by-student basis.
- The internship will not be included in GPA calculations.
- Failure to exhibit appropriate clinical suitability or professional conduct may constitute grounds for failure.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced Credit may be given for up to 12 units of graduate work, if this work is consistent with the program's requirements.

### Flexible Grade Option (CG Grade)

The Clinical Psychology program in the Psychology Department will not permit the Flexible Grade Option (CG Grade) for any course offered by the Clinical Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Students admitted to the program who completed undergraduate breadth courses or their equivalents (see Admissions) may be exempt from comparable breadth requirements in their graduate program.

### Time Limit

It is expected that students will complete the MSc thesis within 2 years. Students in the MSc program must complete all

requirements within 4 registration years. Students who have taken three years to complete all requirements for the master's degree will normally not be admitted into the doctoral program. It is possible for students to complete the MSc and PhD program within 5 years. Maximum time to completion for the doctoral program is 6 years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Program students must have a research supervisor at all times. Supervisors are arranged by mutual consent of student and faculty member, and are consistent with the focus of the student's research work. Doctoral candidates must have a supervisory committee of at least three members.

### Research Proposal

Students in the program must complete both a master's thesis and doctoral thesis, according to the criteria set by the Faculty of Graduate Studies. These research projects typically involve the design of a research question and research project, the collection, analysis and interpretation of original data, and the preparation of a written document consistent with good scholarship. Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

### Required Examinations

In addition to Faculty of Graduate Studies requirements, the program requires:

### Candidacy

Doctoral students must complete a written thesis proposal and pass oral and a written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see [psyc.ucalgary.ca/graduate-program/program-clinical-psychology](https://psyc.ucalgary.ca/graduate-program/program-clinical-psychology).

### Thesis Examination

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. Applicants and program students are strongly encouraged to apply for internal and external awards. For information on Awards, see the [Awards and Financial Assistance](#) section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

#### Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

#### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

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### Introduction

The School of Creative and Performing Arts (SCPA) provides both rigorous and distinct disciplinary programs and uncommon opportunities for interdisciplinary exchange and collaboration. Hosting programs in Dance, Drama and Music, the SCPA provides students a range of options for specialization and innovation, both within and across its participating divisions.

Dance provides a four-year BA (Dance) degree and a four-year BFA (Dance) degree that explores dance from multiple perspectives, as well as a five-year combined BKIN/BA degree that highlights the relationships between the sciences, arts and humanities and a five-year Concurrent Program with the Werklund School of Education that combines a Bachelor of Education with a BA Dance with a concentration in Dance Pedagogy. Students delve into choreography, performance, technique, improvisation, dance for the camera, dance science, global dance, history, and theory in order to understand the place of dance in the twenty-first century. From ballet to contact improvisation, hip hop to contemporary, dance at the University of Calgary helps students gain in-depth experience as well as a broad understanding of a range of cultural forms. With emphasis on both practice and analysis, our program is designed to prepare graduates for careers in professional performance, choreography, scholarship, and education, as well as further dance study in graduate programs.

In addition to the three discipline-specific divisions, the School of Creative and Performing Arts provides unique opportunities for interdisciplinary instruction and collaboration. Specifically, there is one interdisciplinary course required of all students enrolled in a major program in SCPA. This course provides both theoretical and practical instruction in interdisciplinary exchange and creative process. Beyond this required course SCPA students enjoy a wide range of special topics electives and extra-curricular opportunities that explore a variety of interdisciplinary practices and subject material.

## Admissions

### Program Admissions Information

#### Admission to the BFA in Dance

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Applicants to the BFA Dance will be assessed on the basis of a dance audition and an Entrance Audition Form.

#### Dance Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Dance Committee. During the audition, applicants will be required to participate in dance classes, written assignments and improvisation.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February/March.

More information on the Dance Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-dance/how-apply/bfaba-dance-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-dance/how-apply/bfaba-dance-entrance-audition).

## Program Details

### Simple Requisites

#### Faculty Requirement

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts Degree Requirements
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Dance

##### Type

Completion Requirement

The BFA in Dance requires the successful completion of a minimum of 87 units to a maximum of 96 units in Courses Constituting the Field of Dance while fulfilling the Program Requirements:

##### Earn at least 87 credits from the following:

- Courses Constituting the Field of Dance

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 87 credits from the following:

- 69 units from the following Core Courses: Dance 207, 209, 231, 233, 235, 295, 305, 307, 333, 347, 359, 391, 395, 405, 407, 427, 431, 433, 481, 491, 505, 507, 531
- 3 units from the following Core Courses: Dance 447 or 449
- 12 units from the following Studio Options: Dance 215, 311, 313, 321, 323, 411, 413, 421, 423
- 3 units from the following Dance Options: Dance 309, 343, 363, 375, 475, 493, 503, 581

**Note:** Dance 427, 447/449 and 481 are not offered every year. These courses are required without exception. Students must arrange their schedules to accommodate the alternating timetable.

#### Other Requirements

##### Earn at least 6 credits from the following:

- 3 units School of Creative and Performing Arts 499
- 3 units from courses labelled Art (ART), Art History (ARHI), Drama (DRAM), Film (FILM), Music (MUSI), Music Education (MUED), Music Performance (MUPF), or School of Creative and Performing Arts (SCPA)

#### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

### Additional Comments:

## Overview

### General Program Information

#### Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

#### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Creative and Performing Arts (SCPA) provides both rigorous and distinct disciplinary programs and uncommon opportunities for interdisciplinary exchange and collaboration. Hosting programs in Dance, Drama and Music, the SCPA provides students a range of options for specialization and innovation, both within and across its participating divisions.

Dance provides a four-year BA (Dance) degree and a four-year BFA (Dance) degree that explores dance from multiple perspectives, as well as a five-year combined BKIN/BA degree that highlights the relationships between the sciences, arts and humanities and a five-year Concurrent Program with the Werklund School of Education that combines a Bachelor of Education with a BA Dance with a concentration in Dance Pedagogy. Students delve into choreography, performance, technique, improvisation, dance for the camera, dance science, global dance, history, and theory in order to understand the place of dance in the twenty-first century. From ballet to contact improvisation, hip hop to contemporary, dance at the University of Calgary helps students gain in-depth experience as well as a broad understanding of a range of cultural forms. With emphasis on both practice and analysis, our program is designed to prepare graduates for careers in professional performance, choreography, scholarship, and education, as well as further dance study in graduate programs.

In addition to the three discipline-specific divisions, the School of Creative and Performing Arts provides unique opportunities for interdisciplinary instruction and collaboration. Specifically, there is one interdisciplinary course required of all students enrolled in a major program in SCPA. This course provides both theoretical and practical instruction in interdisciplinary exchange and creative process. Beyond this required course SCPA students enjoy a wide range of special topics electives and extra-curricular opportunities that explore a variety of interdisciplinary practices and subject material.

## Admissions

### Program Admissions Information

#### Admission to the BA in Dance

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

Applicants to the BA Dance will be assessed on the basis of a dance audition and an Entrance Audition Form. For information about the Entrance Audition Form and application deadlines, refer to the BA/BFA Dance Entrance Auditions website: [arts.ucalgary.ca/schools/creative-performing-arts/dance/admission-auditions-and-faqs](https://arts.ucalgary.ca/schools/creative-performing-arts/dance/admission-auditions-and-faqs).

## **Dance Audition**

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Dance Committee. During the audition, applicants will be required to participate in dance classes, written assignments and improvisation.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February/March.

More information on the Dance Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-dance/how-apply/bfaba-dance-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-dance/how-apply/bfaba-dance-entrance-audition).

## **Program Details**

### **Simple Requisites**

#### **Faculty Requirements**

##### **Type**

Completion Requirement

#### **Faculty of Arts Graduation Requirements**

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### **Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [\*\*3. Faculty of Arts Regulations\*\*](#).

#### **Additional Comments:**

#### **Courses Constituting the Field of Dance**

##### **Type**

Completion Requirement

The BA in Dance requires the successful completion of a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Dance while fulfilling the Program Requirements:

##### **Earn at least 48 credits from the following:**

- Courses Constituting the Field of Dance

#### **Additional Comments:**

#### **Program Requirements**

##### **Type**

Completion Requirement

#### **Major-Field - Specified Courses**

**Earn at least 48 credits from the following:**

- 33 units from the following Core Courses : Dance 207, 209, 231, 233, 235, 305, 307, 333, 347, 359, 481
- 3 units: Dance 309, 343, 503, 581
- 3 units from the following Studio Options: Dance 215, 311 or 313, 427, 431
- 9 units from the following Theory Options: Dance 363, 391, 447, 449, 491

**Note:** Dance 481 is not offered every year. This course is required without exception. Students must arrange their schedules to accommodate the alternating timetable.

#### Other Requirements

**Earn at least 6 credits from the following:**

- 3 units School of Creative and Performing Arts 499
- 3 units from courses labelled Art (ART), Art History (ARHI), Drama (DRAM), Film (FILM), Music (MUSI), Music Education (MUED), Music Performance (MUPF), or School of Creative and Performing Arts (SCPA)

#### Additional Comments:

#### Concentrations

##### Type

##### Completion Requirement

#### Dance Pedagogy

Students in the BA Dance program may elect to complete a concentration in Dance Pedagogy.

**Earn at least 18 credits from the following:**

- 18 units from the Dance Pedagogy Concentration: Dance 235, 359, 427, 447, 449, 493

#### Dance Production

Students in the BA Dance program may elect to complete a concentration in Dance Production.

**Earn at least 18 credits from the following:**

- 18 units from the Dance Production concentration: Drama 223, 225; Dance 391, 437, 491; School of Creative and Performing Arts 301

#### Additional Comments:

#### Combined Degrees with Kinesiology and Education

##### Type

##### Completion Requirement

#### Combined/Concurrent programs

There are specific Program and/or Faculty requirements when the BA in Dance is combined with either the BKin Kinesiology or the Bachelor of Education. For those requirements refer to:

**Complete ANY of the following Requirement Sets:**

- Concurrent BA Dance (Dance Pedagogy concentration)/BEd
- Combined BKin (Kinesiology)/BA (Dance) - Dance Requirements

#### Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Faculty of Arts - Combined Degrees
- Embedded Certificates
- Arts and Science Honours Academy

Additional Comments:

## Overview

### General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Creative and Performing Arts (SCPA) provides both rigorous and distinct disciplinary programs and uncommon opportunities for interdisciplinary exchange and collaboration. Hosting programs in Dance, Drama and Music, the SCPA provides students a range of options for specialization and innovation, both within and across its participating divisions.

Drama offers a four-year Bachelor of Fine Arts Degree comprised of a broad curriculum including: acting, directing, scenography, playwriting, performance creation, drama education, theatre history and dramatic literature and criticism. The program allows the student to tailor their degree to their interests and their desired career path. Drama also offers a five-year concurrent BFA/BED degree with the Werklund School of Education. Many of our courses are available to non-Drama students and can contribute to an elective requirement.

In addition to the three discipline-specific divisions, the School of Creative and Performing Arts provides unique opportunities for interdisciplinary instruction and collaboration. Specifically, there is one interdisciplinary course required of all students enrolled in a major program in SCPA. This course provides both theoretical and practical instruction in interdisciplinary exchange and creative process. Beyond this required course SCPA students enjoy a wide range of special topics electives and extra-curricular opportunities that explore a variety of interdisciplinary practices and subject material.

## Admissions

### Program Admissions Information

## Admission to the BFA in Drama

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

An audition is not required for admission to the program, however certain courses will require an audition and consent of the Division Lead, Drama before registration.

## Program Details

### Simple Requisites

#### Faculty Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

#### Courses Constituting the Field of Drama

##### Type

Completion Requirement

The BFA in Drama requires the successful completion of a minimum of 69 units to a maximum of 75 units in Courses Constituting the Field of Drama while fulfilling the Program Requirements.

**Earn at least 69 credits from the following:**

- Courses Constituting the Field of Drama

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 36 credits from the following:**

- Core Courses: 30 units Drama 209, 210, 223, 225, 242, 243, 345, 346, 347, 391
- 3 units Drama 481
- 3 units Drama 483

Major-Field - Required Options

33 units of Courses Constituting the Field of Drama at the 300 level or above.

**Earn at least 33 credits from the following:**

- Courses Constituting the Field of Drama

Other Requirements

**Earn at least 12 credits from the following:**

- 3 units School of Creative and Performing Arts 499
- 3 units of a course labelled English (ENGL)
- 6 units selected from courses labelled Art (ART), Art History (ARHI), Dance (DNCE), Film (FILM), Music (MUS), School of Creative and Performing Arts (SCPA) and/or courses at the 300 level or above from courses labelled Drama (DRAM)

**Additional Comments:**

**Concurrent BFA (Drama Education)/BEd**

**Type**

**Completion Requirement**

Concurrent BFA (Drama Education)/BEd

**Introduction**

This five-year program leads to a Bachelor of Fine Arts in Drama Education from the Faculty of Arts and a Bachelor of Education from the Werklund School of Education. A minimum of 150 units must be successfully completed.=

The BFA (Drama Education) program is a specialized program, which exists only in combination with the BEd. It is designed for students intending either to teach drama in schools or to work as drama specialists with young people or community groups following certification. It provides opportunities for course work in performance creation and other aspects of the theatre, which relate directly to the particular needs of theatre with and for youth and communities.

**Admission**

Students must meet the admissions requirements for the Faculty of Arts, School of Creative and Performing Arts, Drama major as well as the Werklund School of Education as specified in the (see [A.5 Undergraduate Degree Admission Requirements](#) section of this Calendar.

**Faculty of Arts Graduation Requirements for the BFA Drama/BEd Concurrent degree**

Students must adhere to the applicable "Faculty of Arts Requirements - Major Degree Requirements" .

**Program Requirements**

For students completing the Concurrent BFA (Drama Education)/BEd, these requirements will replace the Program Requirements above.

**Complete ANY of the following Requirement Sets:**

- Concurrent BFA (Drama Education)/BEd Program Requirements

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Professional Theatre Internship
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

**Additional Comments:**

**Overview**

**General Program Information**

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

##### Year 1:

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including [DRAM605 Methods In Theatre Research](#) and specialization requirements. All candidates must complete a thesis.

##### Complete ALL of the following Courses:

- DRAM611 - Selected Problems in Directing I  
**AND** DRAM613 - Selected Problems in Directing II

##### Year 1:

##### Earn at least 3 credits from the following:

- DRAM641 - Artistic Research  
**OR** DRAM647 - Studies in Modern Drama I  
**OR** DRAM649 - Studies in Modern Drama II

##### Year 1 or 2:

##### Complete ALL of the following Courses:

- DRAM643 - Dramaturgy

**Additional Comments:**

## Additional Requirements

For **Directing** candidates, the thesis will consist of the direction of a full-length play and a supporting paper that reflects critically on the production and on the process of its creation.

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the Flexible Grade Option (CG Grade) for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

## Time Limit

The Master of Fine Arts degree must be completed within four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

## Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for Thesis Examinations, the Department requires:

## *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including **DRAM605 Methods In Theatre Research** and specialization requirements. All candidates must complete a thesis.

Earn at least 3 credits from the following:

- DRAM623 - Seminar in Scene Design  
    **AND** DRAM625 - Seminar in Costume Design  
    **AND** DRAM627 - Seminar in Lighting Design

**DRAM643 Dramaturgy** is recommended.

### Additional Comments:

Students must complete, to the satisfaction of an examining committee, a portfolio and an oral review relating to the student's design work at the completion of the first 12 units. Details concerning the portfolio are available from the Drama office.

For **Design/Technical** candidates, the thesis will consist of the design of a full-length production in two of the following areas: scene design, costume design, light design, sound design, video design. Pictorial material and a supporting paper that reflects critically upon the production and the process of its creation are also required.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

### Time Limit

The Master of Fine Arts degree must be completed within four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

## Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

*Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.

c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including **DRAM605 Methods In Theatre Research** and specialization requirements. All candidates must complete a thesis.

**Complete ALL of the following Courses:**

- DRAM605 - Methods In Theatre Research  
**AND** SCPA609 - Interdisciplinary Processes

Plus 6 units in Drama and 6 units in other disciplines (typically Dance or Music).

#### Additional Comments:

For **Interdisciplinary Creation and Performance** candidates, the thesis will comprise a creative process, its documentation, and written reflection upon the process. It will be determined by the nature of the research in consultation with the supervisor and approved by the Graduate Committee.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

### Time Limit

The Master of Fine Arts degree must be completed within four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

### Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

##### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of

intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.

c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including **Drama 605** and specialization requirements. All candidates must complete a thesis.

#### Complete ALL of the following Courses:

- DRAM671 - Sel Problems Playwriting I  
**AND** DRAM673 - Selected Problems in Playwriting II

Completion of **DRAM675 Pre-thesis in Playwriting** (a pre-thesis play) is recommended if this course is offered.

Year 1 or 2:

#### Earn at least 3 credits from the following:

- DRAM643 - Dramaturgy  
**OR** DRAM647 - Studies in Modern Drama I  
**OR** DRAM649 - Studies in Modern Drama II

#### Additional Comments:

For **Playwriting** candidates, the thesis will consist of a full-length play and a supporting paper that reflects critically on the play and the process of its creation.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

## Time Limit

The Master of Fine Arts degree must be completed within four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

### Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts **requirements**, Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including **Drama 605** and specialization requirements.

All candidates must complete a thesis.

##### Complete ALL of the following Courses:

- DRAM641 - Artistic Research  
**AND** DRAM647 - Studies in Modern Drama I  
**AND** DRAM649 - Studies in Modern Drama II

Year 1 or 2:

##### Complete ALL of the following Courses:

- DRAM643 - Dramaturgy

#### Additional Comments:

For **Theatre Studies** candidates, the thesis will either be a substantial scholarly research paper or a documentation of artistic/empirical research processes and results in a significant scholarly component.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

### Time Limit

The Master of Fine Arts degree must be completed within four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

### Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

##### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Chinese and Japanese Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA East Asian Language Studies Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Students who receive advanced placement at the 331 level or higher in both Chinese and Japanese are ineligible for this program.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

**Courses Constituting the Field of East Asian Language Studies**

**Type**

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of East Asian Language Studies while fulfilling the Program Requirements.

**Earn at least 45 credits from the following:**

- Courses Constituting the Field of East Asian Language Studies

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Major-Field - Specified Courses**

Students choose either Chinese or Japanese as the primary language of study and the other as their secondary language of study. Students who receive advanced placement in Chinese or Japanese at the 331 level or higher must choose the language in which they have not received advanced placement as their primary language of study.

Students who receive advanced placement at the 331 level or higher in both Chinese and Japanese are ineligible for this program.

1. *Primary Language of Study*: 24 units from the list of either "Chinese Language" or "Japanese Language" courses.

Of these 24 units:

- Chinese: at least 3 units must come from Chinese 401, 403, 431
- Japanese: at least 3 units must come from Japanese 441, 451, 471

2. *Secondary Language of Study*: 6 units from the list of either "Japanese Language" or "Chinese Language" courses in the language not chosen for Requirement 1 above.

3. *Primary Area of Studies*: 9 units from the list of either "Chinese Studies" or "Japanese Studies" courses, whichever corresponds to the primary language of study.

4. *Secondary Area of Studies*: 3 units from the list of either "Japanese Studies" or "Chinese Studies" courses, whichever corresponds to the secondary language of study.

**Earn at least 42 credits from the following:**

- Chinese Language: Chinese 205, 207, 229, 280, 281, 301, 303, 304, 305, 331, 333, 334, 335, 341, 353, 371, 373, 401, 403, 431, 561
- Japanese Language: Japanese 205, 207, 301, 303, 310, 312, 331, 333, 371, 373, 441, 451, 471
- Chinese Studies: Art History 325; Chinese 310, 317\*, 341, 353, 355, 357\*, 363, 371, 373, 411, 431, 461, 561
- Japanese Studies: Japanese 201, 309, 317, 323, 325, 327, 341, 423, 461

**Major-Field - Specified Courses**

**Earn at least 3 credits from the following:**

- Capstone: 3 units East Asian Language Studies 501

**Additional Comments:**

**Degree Options**

## Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

Programs in East Asian Language Studies cannot be taken in conjunction with programs in East Asian Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees. Students cannot combine the East Asian Language Studies major with either a Chinese or Japanese minor.

#### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/economics](https://arts.ucalgary.ca/economics)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising)

The Department of Economics offers instruction in the Field of Economics. The BA Honours program is recommended for students planning to pursue a graduate degree in economics and for those who seek an enriched understanding of the subject at the undergraduate level.

## Introduction

Economics is the systematic study of the logic of choice and human action under conditions of scarcity. Its concern is with how economic activity—the production, consumption, and trade of goods and services—is organized when resources are scarce. It seeks to develop an understanding of how individuals should, and do, make decisions, how societies structure economic activity, and the relative effectiveness of different institutions in relaxing, or mitigating, scarcity constraints. There are two primary focuses of economic inquiry: (i) understanding the strengths and limitations of markets relative to alternative institutions and (ii) understanding demand for the use of the government's monopoly on the legal use of coercion and the potential effects of its exercise.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Economics) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

##### Additional Comments:

#### Courses Constituting the Field of Economics

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Economics while fulfilling the Program Requirements.

##### Complete ALL of the following Requirement Sets:

- Courses Constituting the Field of Economics

##### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 21 credits from the following:

- Core: 21 units Economics 201, 203, 301, 303, 357, 359 and 395

#### Major-Field - Required Options

- *Upper-Level Courses:* 12 units from the Field of Economics at the 400 or 500 level.
- *Economics Options:* An additional 9 units from the Field of Economics.

##### Earn at least 21 credits from the following:

- Courses Constituting the Field of Economics

#### Other Requirements

##### Earn at least 9 credits from the following:

- Mathematics Requirement: Mathematics 249 or 265
- Statistics Requirement: 6 units Statistics 213 and 217

## Additional Comments:

### Concentration in Applied Energy Economics

#### Type

#### Completion Requirement

##### Concentration in Applied Energy Economics

The program provides the historical and institutional background and the basic tools necessary for an understanding of the operation of North American and world energy markets, including development of analytical and problem-solving skills.

This Concentration is available only to students pursuing a Degree in Economics. In addition to the requirements for the BA or Honours BA in Economics, students must meet the additional following requirements:

#### Earn at least 24 credits from the following:

- Required Courses: 9 units Economics 427, 493, and Physics 371
- Applied Energy Economics Options: 18 units from Economics 323, 328, 329, 377, 399\*, 429, 453, 457, 475, 477, 487, 495, 499\*, 527, 538, 599\*

*\*May be used when the topic is appropriate.*

## Additional Comments:

### Degree Options

#### Type

#### Completion Requirement

##### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs

## Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/economics](https://arts.ucalgary.ca/economics)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising)

The Department of Economics offers instruction in the Field of Economics. The BA Honours program is recommended for students planning to pursue a graduate degree in economics and for those who seek an enriched understanding of the subject at the undergraduate level.

## Introduction

Economics is the systematic study of the logic of choice and human action under conditions of scarcity. Its concern is with how economic activity—the production, consumption, and trade of goods and services—is organized when resources are scarce. It seeks to develop an understanding of how individuals should, and do, make decisions, how societies structure economic activity, and the relative effectiveness of different institutions in relaxing, or mitigating, scarcity constraints. There are two primary focuses of economic inquiry: (i) understanding the strengths and limitations of markets relative to alternative institutions and (ii) understanding demand for the use of the government's monopoly on the legal use of coercion and the potential effects of its exercise.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Economics) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Economics

##### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Economics while fulfilling the Program Requirements.

Earn at least 60 credits from the following:

- Courses Constituting the Field of Economics

Additional Comments:

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

Earn at least 60 credits from the following:

- Core: 21 units Economics 201, 203, 301, 303, 357, 359 and 395
- Honours Core: 18 units Economics 387, 389, 495, 497, 557 and 559

Major-Field - Required Options

- *Upper-Level Courses*: 9 additional units from the Field of Economics at the 400 or 500 level.
- *Economics Options*: An additional 12 units in the Field of Economics.

Complete ALL of the following Requirement Sets:

- Courses Constituting the Field of Economics

Other Requirements

Earn at least 12 credits from the following:

- Mathematics Requirement: 6 units (a) Mathematics 211 or 213; and (b) Mathematics 249 or 265
- Statistics Requirement: 6 units Statistics 213 and 217

Additional Comments:

## Concentration in Applied Energy Economics

### Type

Completion Requirement

Concentration in Applied Energy Economics

The program provides the historical and institutional background and the basic tools necessary for an understanding of the operation of North American and world energy markets, including development of analytical and problem-solving skills.

This Concentration is available only to students pursuing a Degree in Economics. In addition to the requirements for the BA or Honours BA in Economics, students must meet the additional following requirements:

Earn at least 24 credits from the following:

- Required Courses: 9 units Economics 427, 493, and Physics 371
- Applied Energy Economics Options: 18 units from Economics 323, 328, 329, 377, 399\*, 429, 453, 457, 475, 477, 487, 495, 499\*, 527, 538, 599\*

*\*May be used when the topic is appropriate.*

Additional Comments:

## Degree Options

### Type

## Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

### Additional Comments:

## Overview

### General Program Information

There is a requirement of full-time study for the course-based Master of Arts program.

The work completed in the course-based Master of Arts program is considered equivalent to a major research project and is appropriate for students who intend to proceed to doctoral studies.

\*The MA, course-based is a continuous program with no scheduled break.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/economics-master-arts-course-based>.

In addition to Faculties of Graduate Studies [admission requirements](#) and Arts requirements, the Department requires:

- A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics [395/495/497](#) (econometrics), Economics [387/389](#) (mathematics for economists), Economics [557](#) (senior microeconomics), and Economics [559](#) (senior macroeconomics), with at least a "B" average in senior economics courses.
- International students must hold a four-year degree from a recognized institution. If you received your degree from a university outside Canada, please refer to the country-specific degree requirements: <http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements>.
- Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

## Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

The departmental academic requirements for the course-based Master of Arts degree are comparable to those for the [thesis-based Master of Arts](#). The differences in the course-based program are:

- a) The thesis requirement is replaced by additional 12 units of graduate courses (making a total of 30 units).
- b) The maximal number of courses from a related discipline is increased to 9 units of the elective graduate courses in Economics.
- c) A research paper, which is considered equivalent to a major research project. The topic may be a limited empirical research project, a critical review of the literature in a particular area, or a critical analysis of a theoretical or important policy problem. This paper is completed through [ECON695 Research Methods III](#) and [ECON697 Research Methods IV](#).
- d) An exit requirement consisting of a research defence in an open conference (at the end of Economics 697) and if unsuccessful a comprehensive written examination.

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The department of Economics will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit is not given for undergraduate courses.

## Time Limit

Expected completion time for students studying on a full-time basis is one year for the Master of Arts course-based. Maximum completion time is four years.

## Financial Assistance

### Type

Completion Requirement

## Additional Comments:

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

General Program Information

# UCalgary

## General Program Information

There is a requirement of full-time study for the thesis-based Master of Arts program.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/economics-master-arts-thesis-based>.

In addition to Faculties of Graduate Studies [admission requirements](#) and Arts requirements, the Department requires:

- a) A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics [395/495/497](#) (econometrics), Economics [387/389](#) (mathematics for economists), Economics [557](#) (senior microeconomics), and Economics [559](#) (senior macroeconomics), with at least a "B" average in senior economics courses.
- b) International students must hold a four-year degree from a recognized institution. If you received your degree from a university outside Canada, please refer to the country-specific degree requirements:  
<http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements>.
- c) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) For students holding an Honours Economics degree with credits in Economics [387](#), [389](#), [395](#), [495](#), [497](#), [557](#), and [559](#) or their equivalents, the completion of 18 units of graduate-level Economics courses. Such students may be able to complete the degree in one year. In special cases the Department may allow students to substitute a maximum of 6 units from a related discipline for one of the elective graduate courses in Economics.
- b) For students without an Honours Economics degree or students whose Honours degree in Economics does not include the undergraduate courses specified in (a) or their equivalents, the completion of such courses as are required to raise their competence to the appropriate level. Graduate course requirements for such students are the same as in (a). Such students may be able to complete the degree in two years.
- c) The completion of [ECON615 Econometrics](#), [ECON657 Microeconomic Theory](#) and [ECON659 Macroeconomic Theory](#) unless one or more of them is explicitly exempted by the graduate program director.

Students, with the approval of the graduate program director, may replace Economics 615, 657 and 659 with [ECON705 Advanced Econometrics I/ECON715 Advanced Econometrics II](#), [ECON707 Adv Microeconomic Theory I/ECON757 Advanced Microeconomic Theory II](#) and [ECON709 Adv Macroeconomic Theory I/ECON759 Advanced Macroeconomics Theory II](#) respectively.

- d) Successful completion and examination of the MA thesis (in accord with examination procedures of the Faculty of Graduate Studies).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Economics will not permit the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit is not given for undergraduate courses.

### Time Limit

Expected completion time for students studying on a full-time basis is two years for the Master of Arts thesis-based. Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The process by which students are matched with supervisors is an informal one, based on mutual research interest.

### Research Proposal Requirements

Information on research proposals is available from the interim advisor/grant mentor/supervisor.

### Required Examinations

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

To be eligible for funding beyond the first year, a student must pass field of study exams in microeconomics and macroeconomics by the beginning of classes of their second year. To be eligible for funding beyond the Fall Term of the third year, a student must receive a passing grade on their second-year research paper and their oral thesis proposal by the beginning of Winter Term in their third year.

## Overview

### General Program Information

There is a requirement of full-time study for the doctoral program.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/economics-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies [admission requirements](#) and Arts requirements, the Department requires:

- A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics [395/495/497](#) (econometrics), Economics [387/389](#) (mathematics for economists), [Economics 557](#) (senior microeconomics), and [Economics 559](#) (senior macroeconomics), with at least a "B" average in senior economics courses. Doctoral candidates may require greater proficiency in Mathematics.
- A Master of Arts degree in Economics or its equivalent, with a high level of proficiency in Microeconomic Theory, Macroeconomic Theory, and Econometrics. If courses have been taken more than five years ago, students may be required to upgrade their knowledge in these fields.
- Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

The Department of Economics requires that doctoral students take 36 units. Required courses include two courses each in econometrics, [ECON705 Advanced Econometrics I](#) and [ECON715 Advanced Econometrics II](#), microeconomic theory, [ECON707 Adv Microeconomic Theory I](#) and [ECON757 Advanced Microeconomic Theory II](#), and macroeconomic theory, [ECON709 Adv Macroeconomic Theory I](#) and [ECON759 Advanced Macroeconomics Theory II](#). In addition, students must take 18

units in “field” areas. Doctoral students must also write and pass a second-year research paper prior to scheduling the Thesis Proposal Oral Examination. For further information see the website: <http://econ.ucalgary.ca/graduate/resources-current-students>.

Students are also recommended to take a non-credit one-week course in the Fall Session Block Week (the week prior to the start of classes) of the first year in Mathematical Economics.

The Department allows for the possibility that master's-level courses and course work taken at other institutions may be substituted for some of the required doctoral courses. Decisions concerning course substitutions and the transferability of graduate courses from other institutions are made on a case-by-case basis. Students are advised that the required comprehensive field of study exams in microeconomics, macroeconomics, and econometrics include material from the core courses listed above.

Graduate students must obtain a grade standing of “B” or better in graduate course work. A grade of “B-” or less will trigger a departmental review of the student's suitability for the graduate program and may result in a loss of funding.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### **Flexible Grade Option (CG Grade)**

The department of Economics will not permit the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### **Credit for Undergraduate Courses**

Credit is not given for undergraduate courses.

#### **Time Limit**

Expected completion time for students studying on a full-time basis is five years for the Doctor of Philosophy. Maximum completion time is six years.

#### **Supervisory Assignments, Research Proposal and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

The process by which students are matched with supervisors is an informal one, based on mutual research interest.

#### **Research Proposal Requirements**

Information on research proposals is available from the interim advisor/grant mentor/supervisor.

#### **Required Examinations**

In addition to the Faculty of Graduate Studies requirements for **Candidacy** and **Thesis Examinations**, the Department requires:

## Candidacy

Candidacy must be completed within 28 months from the program start date.

Admission to candidacy is an acknowledgement that a student is fully prepared to devote their full attention to the thesis research.

To enter into candidacy, students must: (1) successfully complete all required courses, (2) pass the microeconomics, macroeconomics and econometrics comprehensive field of study exams, (3) pass the second-year paper requirement, and (4) have their thesis proposal approved by the Supervisory Committee. For further information, please consult the Department of Economics website: <https://econ.ucalgary.ca/graduate/resources-current-students>.

Students who do not pass their candidacy requirements by the twenty-eighth month of their program may be required to withdraw from the program. A full description of all candidacy requirements is available at:

<https://econ.ucalgary.ca/graduate/resources-current-students>.

## Thesis Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

To be eligible for funding beyond the first year, a student must pass field of study exams in microeconomics and macroeconomics by the beginning of classes of their second year. To be eligible for funding beyond the Fall Term of the third year, a student must receive a passing grade on their second-year research paper and their oral thesis proposal by the beginning of Winter Term in their third year.

## Overview

### General Program Information

**Applications for this interdisciplinary specialization are not current being accepted.**

The University offers an interdisciplinary specialization in Energy and Environmental Systems to students registered in an existing graduate program currently offered through one of the following Faculties that are affiliated with the Institute for Sustainable Energy, Environment and Economy (ISEEE):

- School of Architecture, Planning and Landscape
- Faculty of Arts
- Haskayne School of Business
- Faculty of Law
- Faculty of Science
- Schulich School of Engineering

In cases where the student's proposed research area cannot be supported through a single academic program, and which would necessitate the combination of at least two academic areas, they may seek admission and earn the EES specialization through the Interdisciplinary Graduate Program (IGP) of the Faculty of Graduate Studies.

## Admissions

### Program Admissions Information

There are no deadlines for applying for admission into the EES Specialization; however, students will only be admitted into the EES Specialization on January 1, May 1 and September 1. Students who are already enrolled in a graduate program at the University of Calgary are able to apply to the EES Specialization.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, all applicants must meet the minimum admission requirements of the home graduate program and ISEEE. To apply for the specialization, students must complete an online EES specialization application form: <http://science.ucalgary.ca/iseee/student/apply-now>.

When applying to the EES specialization, students must have already applied to a home graduate program, faculty, or department and must already have a supervisor. Successful candidates must be approved for admission by both the home graduate program as well as by EES. Admission to a degree program does not guarantee entrance to the EES specialization. Likewise, admission to the EES specialization does not guarantee entrance to a degree program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies ([see regulations](#)) and the home graduate program's requirements, students undertaking the EES specialization must successfully complete the following:

#### EES Specialization at the Master's Level

Students in the EES specialization are required to complete four courses, which include:

- Energy and Environmental Systems 601: Introduction to Energy and Environmental Systems
- Energy and Environmental Systems 607: Tools for System Analysis

The remaining two courses must be electives approved by the EES Graduate Studies Committee. These courses are intended to bolster a student's background in energy and environmental systems and/or interdisciplinary research methods, and may be taken in other faculties, schools, or departments at the University of Calgary.

Master's students must also comply with the requirements of their home graduate program. In addition to these course requirements, students must conduct research that takes an interdisciplinary approach to a real-world problem in the area of energy and environmental systems. Students must also actively partake in EES seminars and activities, and contribute meaningfully to the interdisciplinary culture of the specialization.

#### EES Specialization at the Doctoral Level

Students who have previously earned a master's degree with the EES specialization cannot enrol into the EES specialization as a PhD student. Doctoral students are required to take the same EESS core courses that are required at the master's level and two electives in the area of energy and environment. Doctoral students must also comply with requirements of their home graduate program.

#### EES Specialization with MGIS Degree (course-based)

Students enrolled in the Master of Geographic Information Systems degree program who wish to earn the EES specialization

will need to take three of the EES courses (Energy and Environmental Systems 601, 603, and one other). Students are not required to take Geography 683, but must take the other core courses in the MGIS program (Geography 647, 633, 639, and 681). Finally, students will still be required to fulfill the 30 units (5.0 full-course equivalents) requirement of the MGIS program, and can select the remaining three courses from Geography optional courses or EES related courses. It is not recommended that students required to complete the MGIS upgrade courses undertake the EES specialization.

### **EES Specialization with the Interdisciplinary Graduate Program (IGP)**

The course curriculum for IGP students will be determined at the IGP admission seminar. Course requirements will typically include the EES core courses, but may also include other courses to ensure adequate coverage of the relevant disciplines involved. Changes to the student's curriculum after the admission seminar will require the approval of the Supervisory Committee, IGP Director, and the Faculty of Graduate Studies.

### **Additional Program Information**

#### **Type**

Completion Requirement

#### **Additional Comments:**

### **Advanced Credit**

Requests for advanced credit must be made at the time of application. Credit will not be granted for course work taken as part of another completed degree/diploma or for courses taken to bring the admission GPA to the required level.

### **Credit for Undergraduate Courses**

Students are allowed to take only one 500-level course for graduate credit, subject to the approval of the EES Graduate Studies Committee. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

### **Time Limit**

Expected completion time for a master's degree is two years and the maximum completion time is four years.

Expected completion time for the PhD degree is four years and the maximum completion time is six years.

### **Supervisory Assignment and Required Examinations**

#### **Type**

Completion Requirement

#### **Additional Comments:**

### **Supervisory Assignments**

Students must meet supervisory requirements of home department.

### **Required Examinations**

Final thesis orals follow the requirements of the Faculty of Graduate Studies and the home graduate program. Students in doctoral programs must fulfill the written candidacy examination requirement of the home graduate program. All doctoral students must complete the candidacy oral examination in accordance with Faculty of Graduate Studies' regulations.

### **Research Proposal Requirements**

If a research proposal is required by the home department, then a copy of the proposal must be submitted to the EES Graduate Studies Committee and will be placed on file.

### **Financial Assistance**

#### **Type**

Completion Requirement

## Additional Comments:

Financial assistance may be available on a competitive basis to all qualified full-time graduate students enrolled in the EES specialization. Students are also encouraged to seek funding opportunities through the Faculty of Graduate Studies' Open Scholarship Competition (contact the home program for application deadlines), as well as external funding agencies.

## Overview

### General Program Information

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising)

## Introduction

Students choosing to major in English may choose to complete either a BA in English or an Honours BA in English. Both are four-year programs. The BA in English and Honours BA in English provide students with a broad education in the history of literature in English and encourage wide exploration of Indigenous and global traditions as well as theoretical contexts. Both programs are excellent preparation for careers in education, law, writing, business, and government. Students wanting to enhance their studies with non-academic experience may pursue their degree in tandem with the Co-operative Education program. The Honours BA in English is considered the best preparation for those wanting to pursue graduate studies in English.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (English) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

## Additional Comments:

## Courses Constituting the Field of English

### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of English while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of English

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 27 credits from the following:**

- 1. Literary Fundamentals: 6 units English 305, 307, 361, 369, 372, 376, 378, 379
- 2. Literary Theory: 6 units from English 302, 303, 426, 481, 517
- 3. Literatures in Canada: 3 units from English 372, 466, 471, 473, 509
- 4. Black, Indigenous, Persons of Colour and Diasporic Literatures: 6 units from English 369, 376, 378, 424, 466, 491, 493, 514, 515, including at least 3 units from the 400 level or above
- 5. Historical Courses pre-1900: 6 units from English 401, 403, 405, 406, 410, 411, 412, 413, 429, 431, 438, 441, 445, 449, 461, 495, 499\*, 519\*

*\*May be used with approval of the Undergraduate Program Director.*

Major-Field - Required Options

- 6. *English Options:* An additional 21 units from Courses Constituting the Field of English including at least 15 units at the 300 level or above, and no more than 6 units in Drama or Linguistics.

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of English
- 7. *Upper-Year Courses:* Inclusive of the courses used to satisfy requirements 2-6 above, 21 units must be from courses labelled English at the 400 level or above, of which at least 3 units must be at the 500 level.

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/english](https://arts.ucalgary.ca/english)

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Students choosing to major in English may choose to complete either a BA in English or an Honours BA in English. Both are four-year programs. The BA in English and Honours BA in English provide students with a broad education in the history of literature in English and encourage wide exploration of Indigenous and global traditions as well as theoretical contexts. Both programs are excellent preparation for careers in education, law, writing, business, and government. Students wanting to enhance their studies with non-academic experience may pursue their degree in tandem with the Co-operative Education program. The Honours BA in English is considered the best preparation for those wanting to pursue graduate studies in English.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (English) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

## Additional Comments:

## Courses Constituting the Field of English

### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of English while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of English

## Additional Comments:

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 39 credits from the following:**

- 1. Literary Fundamentals: 6 units English 305, 307, 361, 369, 372, 376, 378, 379
- 2. Literary Theory: 9 units from English 302, 303, 426, 481, 517
- 3. Literatures in Canada: 3 units from English 372, 466, 471, 473, 509
- 4. Black, Indigenous, Persons of Colour and Diasporic Literatures: 6 units from English 369, 376, 378, 424, 466, 491, 493, 514, 515, including at least 3 units from the 400 level or above
- 5. Historical Courses pre-1900: 9 units from English 401, 403, 405, 406, 410, 411, 412, 413, 429, 431, 438, 441, 445, 449, 461, 495, 499\*, 519\*
- 6. Honours Project: 6 units English 504

*\*May be used with approval of the Undergraduate Program Director.*

Major-Field - Required Options

7. English Options: An additional 21 from Courses Constituting the Field of English, including at least 18 units at the 300 level or above, and no more than 6 units in Drama or Linguistics.

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of English
8. Upper-Year Courses: Inclusive of the courses used to satisfy requirements 2-7 above, 21 units must be from courses labelled English at the 400 level or above, of which at least 12 units must be at the 500 level.

## Additional Comments:

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

### General Program Information

The MA, course-based is a continuous program with no scheduled break.

This one-year program includes significant independent research, is SSHRC-eligible, and is appropriate for students who intend to proceed to doctoral studies.

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

### Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department [website](#) for further details.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-master-arts-course-based>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate program (or equivalent) with a Major in English Literature or in a closely related discipline.
- A minimum admission grade point average of 3.3 on a four-point scale over the final 60 units of the undergraduate degree.
- A Statement of Intent.
- A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a grade of "A-" in two courses and "B+" in all other courses.
- Two reference letters.

## Program Details

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

#### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) 21 units in English at the 600 or 700 level beyond the Honours BA or equivalent.

b) [ENGL710 Capstone Project](#).

c) [ENGL691 Graduate Pro-seminar](#) or its equivalent.

All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Application for advanced credit must be made to the Department Head at the time of admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

With the approval of the Department, all MA students may take for credit up to 3 units at the 500 level (excluding English 504).

### Time Limit

Expected completion time is up to twelve months for the course-based Master of Arts. Maximum completion time is two years.

### Supervisory Assignments and Research Proposal Requirements

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students are initially assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

Thesis-based: By March 1 of the first year, each student must submit a proposed field of research and the name of a proposed supervisor to the Graduate Executive Committee for approval.

Course-based: By June 1, students will approach a faculty member, normally one with whom they have completed (or are completing) a graduate course, to request supervision for their capstone research project.

## Research Proposal Requirements

By June 15 students will prepare a topic proposal of two pages plus bibliography for the capstone course and submit it to the Graduate Program Office for approval. Further details are available from the department.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

The MA, thesis-based program includes significant independent research.

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

### Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department [website](#) for further details.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-master-arts-thesis-based>

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate program (or equivalent) with a Major in English Literature or in a closely related discipline.
- A minimum admission grade point average of 3.3 on a four-point scale over the final 60 units of the undergraduate degree.
- A Statement of Intent.
- A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS

score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a grade of "A-" in two courses and "B+" in all other courses.

f) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department requires:

a) 18 units in English at the 600 or 700 level beyond the Honours BA or equivalent.

b) **ENGL691 Graduate Pro-seminar** or its equivalent.

c) A scholarly and/or critical thesis (approximately 100 pp).

##### Copyediting

While suggestions for editorial changes are a normal part of the collaboration between a student, the supervisory committee and the academic community, having a thesis professionally edited is prohibited by the department.

All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for **advanced credit** must be made to the Department Head at the time of admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

With the approval of the Department, all MA students may take for credit up to 3 units at the 500 level (excluding English 504).

## Time Limit

Expected completion time is two years for the thesis-based Master of Arts. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are initially assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

Thesis-based: By March 1 of the first year, each student must submit a proposed field of research and the name of a proposed supervisor to the Graduate Executive Committee for approval.

Course-based: By June 1, students will approach a faculty member, normally one with whom they have completed (or are completing) a graduate course, to request supervision for their capstone

## Thesis Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

The thesis examination is open to the public.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

### Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department [website](#) for further details.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-doctor-philosophy-thesis-based>

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) A completed four-year undergraduate program (or equivalent), and a completed Master's degree. At least one of the degrees must be in English Literature. In exceptional circumstances, degrees in a closely related discipline may meet admission requirements.
- b) A grade point average of 3.5 on a four-point scale at the graduate level.
- c) A Statement of Intent.
- d) A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- e) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68. This requirement can also be met by completing the **Academic Communication Certificate** with a grade of "A-" in two courses and "B+" in all other courses.
- f) Two reference letters.
- g) A curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department requires:

- a) 18 units in English at the 600 or 700 level beyond the Master's.
- b) **ENGL691 Graduate Pro-seminar** or its equivalent.
- c) A demonstrated reading knowledge of a language other than English. Students are encouraged to establish competency in a language that contains a body of texts relevant to their program of study. This requirement can be met in one of the following ways:
  - A minimum grade of "B" in 6 units at a senior (300) level in a language course.
  - Passing the department reading exam, which is set twice a year.
  - Documentation establishing native proficiency in a language other than English. It is the responsibility of the student to supply evidence of native proficiency or evidence that course work in a language at another university meets the requirement spelled out in this guide. Students who do not meet the requirement upon entry should consult with the Associate Head (Graduate Program) no later than the week before classes begin about the best approach to take.
- d) Written and oral Field of Study Examinations.
- e) A thesis proposal.
- f) A doctoral thesis on approved topic and an oral thesis examination.

##### Copyediting

While suggestions for editorial changes are a normal part of the collaboration between a student, the supervisory committee and the academic community, having a thesis professionally edited is prohibited by the department.

All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Application for advanced credit must be made to the Department Head at the time of admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

For the first eight months of the program, students are assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

By March 1 of the first year, each student will submit the name of a proposed supervisor and the proposed thesis research focus to the Graduate Executive Committee for approval.

By September 30 of the second year, the student, in consultation with the supervisor, will submit the names of the proposed supervisory committee, Field of Study, and initial thesis proposal to the Graduate Executive Committee for approval.

## Required Examinations

### Candidacy

Before formally embarking on the writing of the PhD thesis, all students must pass a Field of Study Written Examination, a Field of Study Oral Examination and pass a Thesis Proposal supervisory committee meeting and review. Details about the examination format and other candidacy requirements are available at: <https://arts.ucalgary.ca/english/current-students/graduate/doctoral-candidacy>.

### Thesis Examination

## *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner must be external to the home program.

The thesis examination is open to the public.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

### Faculty of Science Requirements

#### Type

## Completion Requirement

### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

### Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

#### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Geography while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

## Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - Major with a Concentration in Geography and Arts

#### Earn at least 96 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 12 units - Geography 308, 310, 408, and 412
- 6 units - Geography 500 or 502 or 503 or 504 or 506 or 508 or 510
- 9 units - Geography 380; and 482 or 484; and 567 or 584 or 586
- 6 units - Geography 324; and 426 or 530 or 532 or 538
- 9 units - Geography 352; 483; and 454 or 458
- 3 units - Statistics 327 or Biology 315

- 6 units - Economics 201 and 377
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Anthropology 203 or Sociology 201
- 3 units - Anthropology 313 or 355 or 395 or Environmental Science 201 or Indigenous Studies 201 or Sociology 307

Required Options - Major with a Concentration in Geography and Arts

Earn at least 24 credits from the following:

- 6 units - Options from the Faculty of Arts
- 6 units - Non-Major Field Requirement: Options outside of the Field of Environmental Science (Geography and the Arts Concentration)
- 12 units - Options

Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

Additional Comments:

#### Recommended Program Sequence for the Geography and Arts Concentration

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geography and Arts Concentration.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

Additional Comments:

## Overview

### General Program Information

Office: Science B 149

Telephone: 403.220.8600

Website: [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

Email: [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Enroll in the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts

regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

### Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

#### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

**Additional Comments:**

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - Major Program with a Concentration in Geography and Arts

**Earn at least 96 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 12 units - Geography 308, 310, 408, and 412
- 6 units - Geography 500 or 502 or 503 or 504 or 506 or 508 or 510
- 9 units - Geography 380; and 482 or 484; and 567 or 584 or 586
- 6 units - Geography 324; and 426 or 530 or 532 or 538
- 9 units - Geography 352; 483; and 454 or 458
- 3 units - Statistics 327 or Biology 315
- 6 units - Economics 201 and 377
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Anthropology 203 or Sociology 201
- 3 units - Anthropology 313 or 355 or 395 or Environmental Science 201 or Indigenous Studies 201 or Sociology 307

#### Required Options - Major Program with a Concentration in Geography and Arts

**Earn at least 24 credits from the following:**

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Geography
- 6 units - Non-Major Field Requirement: Options outside of the Field of Environmental Science (Geography and the Arts Concentration)
- 12 units - Options

**Additional Comments:**

### Program Sequence

## Type

Completion Requirement

## Additional Comments:

### Recommended Program Sequence for the Geography and Arts Concentration

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geography and Arts Concentration.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

## Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Chinese and Japanese Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study

# UCalgary

Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA East Asian Studies Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of East Asian Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units in Courses Constituting the Field of East Asian Studies while fulfilling the Program Requirements.

##### Earn at least 42 credits from the following:

- Courses Constituting the Field of East Asian Studies

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

## Major-Field - Specified Courses

### Earn at least 21 credits from the following:

- Core Courses: 9 units including East Asian Studies 201, 531, and 3 units from Chinese 317, 355, Japanese 317
- Language: 12 units from either: (a) Chinese 205, 207, 229, 301, 303, 331, 333, 341, 353, 371, 373, 401, 403, 431, 561; or (b) Japanese 205, 207, 301, 303, 331, 333, 371, 373, 441, 451, 471

## Major-Field - Required Options

An additional 21 units chosen from Courses Constituting the Field of East Asian Studies with at least 15 units chosen from the list of courses with a Focus on East Asia.

### Earn at least 21 credits from the following:

- Courses Constituting the Field of East Asian Studies

## Other Requirements

### Earn at least 6 credits from the following:

- Methods & Frameworks: 3 units from: Philosophy 201, Religious Studies 205
- Methods & Frameworks: 3 units from: Anthropology 203, Linguistics 201, Political Science 201, Sociology 201

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Film Studies situates motion pictures within a wider culture of images and sounds, comprising both contemporary media and diverse historical practices. The program offers students the analytical skills and historical and theoretical frameworks to critically assess contemporary visual culture, and in this way helps to prepare them for careers in film and media criticism; film programming and production; work in cultural institutions; and university research and teaching.

The Department offers a Bachelor of Arts (BA) in Film Studies and a Bachelor of Film Studies (BFS). Students taking a BA in Film Studies will develop a broad understanding of the medium, considering film as an art form, as a cultural industry, and as an innovative and developing technology with social, cultural, and political significance. Opportunities for further concentration are available via the BA (Honours) in Film Studies program. The BFS is offered in partnership with SAIT Polytechnic and is intended for students who want the broad interdisciplinary base of knowledge provided by a university degree combined with practical skills in film, video and new media production. A minor program is also offered.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Film Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Film Studies while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Film Studies

Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Major-Field - Specified Courses

Earn at least 27 credits from the following:

- Core Courses: 9 units Film 201, 321, 591
- Core Courses: 3 units from Film 331 or 333
- Advanced Courses: 15 units from courses labelled Film (FILM) at the 400 level or above

#### Major-Field - Required Options

- *Film Options*: 21 units from Courses Constituting the Field of Film Studies, with a maximum of 6 units from courses not labelled Film.

Earn at least 21 credits from the following:

- Courses Constituting the Field of Film Studies

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

The Bachelor of Film Studies and the Bachelor of Arts in Film Studies also may not be taken in conjunction with each other.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/communication-media-film](https://arts.ucalgary.ca/communication-media-film)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Communication, Media and Film hosts programs in Communication and Media Studies and Film Studies.

Film Studies situates motion pictures within a wider culture of images and sounds, comprising both contemporary media and diverse historical practices. The program offers students the analytical skills and historical and theoretical frameworks to critically assess contemporary visual culture, and in this way helps to prepare them for careers in film and media criticism; film programming and production; work in cultural institutions; and university research and teaching.

The Department offers a Bachelor of Arts (BA) in Film Studies and a Bachelor of Film Studies (BFS). Students taking a BA in Film Studies will develop a broad understanding of the medium, considering film as an art form, as a cultural industry, and as an innovative and developing technology with social, cultural, and political significance. Opportunities for further concentration are available via the BA (Honours) in Film Studies program. The BFS is offered in partnership with SAIT Polytechnic and is intended for students who want the broad interdisciplinary base of knowledge provided by a university degree combined with practical skills in film, video and new media production. A minor program is also offered.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Admission to Honours

Prospective students wishing to enter any of the degree programs offered by the Department of Communication, Media and Film must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

### Courses Constituting the Field of Film Studies

#### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Film Studies while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Film Studies

**Additional Comments:**

### Program Requirements

#### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 33 credits from the following:**

- Core Courses: 9 units Film 201, 321, 591
- Core Courses: 3 units from Film 331 or 333
- Advanced Courses: 15 units from courses labelled Film (FILM) at the 400 level or above
- Undergraduate Thesis: 6 units Film 595 and 597

A grade of "B-" or higher in Film 595 and 597 is required for graduation with the BA Honours degree.

Major-Field - Required Options

- *Film Options*: 27 units from Courses Constituting the Field of Film Studies, with a maximum of 6 units from courses not labelled Film.

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of Film Studies

**Additional Comments:**

### Degree Options

#### Type

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

**Overlapping Programs**

The Bachelor of Film Studies and the Bachelor of Arts in Film Studies also may not be taken in conjunction with each other.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

The School recognizes the special role and place that French, as one of our country's two official languages, has played and continues to play in the socio-historical context of Canada. The French programs encompass French Canada, French-speaking Europe, francophone African literatures, critical theories, sociolinguistics and second language teaching.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

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## Placement in French Courses

Les étudiants doivent choisir comme premier demi-cours celui qui correspond à leurs connaissances de la langue française. Les étudiants qui ont suivi French 30 ou French N30 s'inscriront d'habitude au cours French 213. Ceux qui ont suivi French 30N, 30S, 31, French Language Arts 30 ou leur équivalent s'inscriront d'habitude au cours French 225. Il est fortement recommandé, en cas de doute, de s'adresser à l'École de langues, linguistique, littératures et cultures avant la période des inscriptions.

Les étudiants de langue maternelle française et ceux dont le niveau d'études dans ces langues est supérieur à celui du diplôme de fin d'études secondaires (y compris les étudiants provenant d'un programme bilingue ou d'immersion) doivent obligatoirement consulter l'École de langues, linguistique, littératures et cultures, en la personne du conseiller pédagogique (programme de français), pour se faire diriger vers le(s) cours conforme(s) à leur niveau.

Students should choose a first course in French appropriate to their command of the language. Students with French 30 or French N30 should enrol in French 213. Those with credit in French 30N, 30S, 31, French Language Arts 30, or equivalent should enrol in French 225. In all cases of doubt as to proper placement, students are strongly urged to seek the advice of the School of Languages, Linguistics, Literatures and Cultures before the registration period.

Native French speakers, and those whose existing level of study is higher than completion of the high school courses above (including students from bilingual or immersion programs) must consult the French program advisor in the School of Languages, Linguistics, Literatures and Cultures for placement advice on courses appropriate to their existing language competence.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Le Centre français/The French Centre

## UCalgary

Le Centre français est situé à Craigie Hall (C301). Le Centre propose un choix d'activités culturelles et gère "Le francophone," lieu de rencontre et centre multimédia où l'on peut se détendre dans une ambiance francophone.

Le Centre gère aussi des cours accrédités donnés en français dans différentes disciplines (French Language Instruction Program ou FLIP) permettant à l'étudiant de renforcer sa maîtrise de la langue. Pour de plus amples renseignements, prière de s'adresser au Centre français, 403.220.7226, [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

The French Centre is located in Craigie Hall (C301). The Centre offers a variety of cultural activities, and operates "Le francophone," a drop-in and media learning centre for those wishing to relax in a francophone atmosphere.

Through the French Language Instruction Program (FLIP), credit courses are offered in various disciplines providing students with opportunities to use and improve their French. Detailed information may be obtained from the Centre at 403.220.7226 or [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA French Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of French

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of French while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of French

#### Additional Comments:

## Program Requirements

### Type

### Completion Requirement

Exigences pour le Baccalauréat en Français

**Earn at least 21 credits from the following:**

- Niveau 200: 9 unités French 213, 225 et 227
- Niveau 300: 12 unités fournies par les cours French 329, 339, 353, 369

Exigences pour le Baccalauréat en Français

- Niveau 300: en outre 3 unités à puiser dans les cours faisant partie du champ d'études du français\*\*
- Niveau 400: 15 unités à puiser dans les cours faisant partie du champ d'études du français\*\*
- Niveau 500: 9 unités à puiser dans les cours faisant partie du champ d'études du français\*\*

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of French

*\*\*Seules 3 unités provenant des cours Language ou Romance Studies seront comptées vers la concentration en français.*

Remarques:

- Les étudiants qui sont placés dans la série des cours de langue à un niveau supérieur au cours French 213 doivent remplacer les cours dont ils sont dispensés par d'autres cours portant l'étiquette French (FREN) de niveau 300 (ou plus haut).
- L'École de langues, linguistique, littératures et cultures recommande aux étudiants dont le français est la langue seconde de choisir French 489.01 (Phonologie).
- L'École de langues, linguistique, littératures et cultures recommande aux étudiants d'inclure parmi leurs options des cours FLIP (French Language Instruction Program) enseignés en français dans d'autres départements. Un cours FLIP (French Language Instruction Program) peut compter pour 3 unités.
- Dans les cas de double spécialisation français/espagnol, seules 12 unités sont exigées au niveau 400, et seules 6 unités sont exigées au niveau 500.

Major-Field - Specified Courses

**Earn at least 21 credits from the following:**

- 200-Level Courses: 9 units French 213, 225 and 227
- 300-Level Courses: 12 units French 329, 339, 353, 369

Major-Field - Required Options

- 300-Level Courses: 3 additional units in Courses Constituting the Field of French\*\*
- 400-Level Courses: 15 units in Courses Constituting the Field of French\*\*
- 500-Level Courses: 9 units in Courses Constituting the Field of French\*\*

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of French

*\*\*Only 3 units from courses labelled Language or Romance Studies may be counted towards the major field requirements.*

Notes:

- Students who place higher than French 213 in the language-course sequence must replace those language courses by other senior-level courses labelled French (FREN).
- The School of Languages, Linguistics, Literatures and Cultures recommends that non-francophone students choose French 489.01 (Phonology) as the required course at the 400 level.

- The School of Languages, Linguistics, Literatures and Cultures recommends that students include among their options FLIP (French Language Instruction Program) courses taught in French in other departments. Three units FLIP (French Language Instruction Program) may be counted toward the French Major.
- In the case of French/Spanish double majors, only 12 units are required at the 400 level and only 6 units are required at the 500 level.

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Honours Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Concurrent BA (French)/BEd

#### Overlapping Programs

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

## Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

The School recognizes the special role and place that French, as one of our country's two official languages, has played and continues to play in the socio-historical context of Canada. The French programs encompass French Canada, French-speaking Europe, francophone African literatures, critical theories, sociolinguistics and second language teaching.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

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### Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

### Placement in French Courses

Les étudiants doivent choisir comme premier demi-cours celui qui correspond à leurs connaissances de la langue française. Les étudiants qui ont suivi French 30 ou French N30 s'inscriront d'habitude au cours French 213. Ceux qui ont suivi French 30N, 30S, 31, French Language Arts 30 ou leur équivalent s'inscriront d'habitude au cours French 225. Il est fortement recommandé, en cas de doute, de s'adresser à l'École de langues, linguistique, littératures et cultures avant la période des inscriptions.

Les étudiants de langue maternelle française et ceux dont le niveau d'études dans ces langues est supérieur à celui du diplôme de fin d'études secondaires (y compris les étudiants provenant d'un programme bilingue ou d'immersion) doivent obligatoirement consulter l'École de langues, linguistique, littératures et cultures, en la personne du conseiller pédagogique (programme de français), pour se faire diriger vers le(s) cours conforme(s) à leur niveau.

Students should choose a first course in French appropriate to their command of the language. Students with French 30 or French N30 should enrol in French 213. Those with credit in French 30N, 30S, 31, French Language Arts 30, or equivalent should enrol in French 225. In all cases of doubt as to proper placement, students are strongly urged to seek the advice of the School of Languages, Linguistics, Literatures and Cultures before the registration period.

Native French speakers, and those whose existing level of study is higher than completion of the high school courses above (including students from bilingual or immersion programs) must consult the French program advisor in the School of Languages, Linguistics, Literatures and Cultures for placement advice on courses appropriate to their existing language competence.

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

### Le Centre français/The French Centre

Le Centre français est situé à Craigie Hall (C301). Le Centre propose un choix d'activités culturelles et gère "Le francophone," lieu de rencontre et centre multimédia où l'on peut se détendre dans une ambiance francophone.

Le Centre gère aussi des cours accrédités donnés en français dans différentes disciplines (French Language Instruction Program ou FLIP) permettant à l'étudiant de renforcer sa maîtrise de la langue. Pour de plus amples renseignements, prière de s'adresser au Centre français, 403.220.7226, [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

# UCalgary

The French Centre is located in Craigie Hall (C301). The Centre offers a variety of cultural activities, and operates "Le francofonne," a drop-in and media learning centre for those wishing to relax in a francophone atmosphere.

Through the French Language Instruction Program (FLIP), credit courses are offered in various disciplines providing students with opportunities to use and improve their French. Detailed information may be obtained from the Centre at 403.220.7226 or [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA French Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Admission to Honours in French, Language and Culture, Linguistics and Spanish

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of French

##### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of French while fulfilling the Program Requirements.

##### Earn at least 60 credits from the following:

- Courses Constituting the Field of French

#### Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

Exigences pour le Baccalauréat Spécialisé en Français

**Earn at least 30 credits from the following:**

- Niveau 200: 9 unités French 213, 225 et 227
- Niveau 300: 12 unités fournies par les cours French 329, 339, 353, 369
- Niveau 500: 3 unités French 511
- Le Mémoire de Baccalauréat spécialisé: 6 unités French 598

Exigences pour le Baccalauréat Spécialisé en Français

- Niveau 300: 3 unités additionnelles à puiser dans les cours faisant partie du champ d'études du français\*
- Niveau 400: 18 unités à puiser dans les cours faisant partie du champ d'études du français\*
- Niveau 500: 9 unités à puiser dans les cours faisant partie du champ d'études du français\*

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of French

*\*Seules 3 unités provenant des cours Language ou Romance Studies seront comptées vers la concentration en français.*

#### Remarques:

- Les étudiants qui sont placés la série des cours de langue à un niveau supérieur au cours French 213 doivent remplacer les cours dont ils sont dispensés par d'autres cours portant l'étiquette French (FREN) de niveau 300 (ou plus haut).
- L'École de langues, linguistique, littératures et cultures recommande aux étudiants dont le français est la langue seconde de choisir French 489.01 (Phonologie).
- L'École de langues, linguistique, littératures et cultures recommande aux étudiants d'inclure parmi leurs options des cours FLIP (French Language Instruction Program) enseignés en français dans d'autres départements. Un cours FLIP (French Language Instruction Program) peut compter pour 3 unités.
- L'École de langues, linguistique, littératures et cultures recommande fortement aux étudiants de baccalauréat spécialisé d'effectuer un voyage d'études d'au moins un semestre dans un environnement francophone.

Major-Field - Specified Courses

**Earn at least 30 credits from the following:**

- 200-Level Courses: 9 units French 213, 225 and 227
- 300-Level Courses: 12 units French 329, 339, 353, 369
- 500-Level Courses: 3 units French 511
- Honours Thesis: 6 units French 598

Major-Field - Required Options

- 300-Level Courses: 3 additional units in Courses Constituting the Field of French\*
- 400-Level Courses: 18 units in Courses Constituting the Field of French\*
- 500-Level Courses: 9 additional units in Courses Constituting the Field of French\*

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of French

*\*Only 3 units from courses labelled Language or Romance Studies may be counted towards the major field requirements.*

#### Notes:

- Students who place higher than French 213 in the language-course sequence must replace those language courses by other senior-level courses labelled French (FREN).
- It is recommended that non-francophone students choose French 489.01 (Phonology) as the required course at the 400 level.
- It is recommended that students include among their options FLIP (French Language Instruction Program) courses taught in French in other departments. Three units FLIP (French Language Instruction Program) may be counted toward the French Honours Program.
- It is strongly recommended that students in the Honours Program study for at least one semester in a Francophone environment.

### Additional Comments:

### Degree Options

#### Type

#### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

#### Overlapping Programs

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Global Development Studies program is an interdisciplinary program designed to provide students with an understanding of the issues, policies, and practices associated with sustainable global and community development in the context of both Canada and internationally. Courses examine social, economic, environmental, and political change as well as issues of poverty, hunger, social justice, colonialism, participatory development, cultural beliefs, human rights, and governance. Students gain practical skills for designing, implementing, and effectively managing community development projects which prepares them for further studies as well as employment in governmental, non-governmental, and other international development-related fields in Canada and abroad.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Global Development Studies Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

#### Courses Constituting the Field of Global Development Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of Development Studies and fulfill the Program requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Global Development Studies

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

## Major-Field - Specified Courses

Earn at least 15 credits from the following:

- Core Courses: 9 units Global Development Studies 201, 302, 393
- Research Methods: 3 units from Anthropology 411, Communication and Media Studies 313, Geography 483, Political Science 397, 398, 399, Sociology 311, 313, Statistics 213, Sustainability Studies 401
- Capstone Seminar: 3 units Global Development Studies 591

## Major-Field - Required Options

Earn at least 27 credits from the following:

- Courses Constituting the Field of Global Development Studies

## Major-Field - Required DEST Options

Earn at least 6 credits from the following:

- All courses labelled Global Development Studies (DEST) at the 400 level or above

## Other Requirements

Earn at least 6 units from the following:

- **Language:** 6 units in modern languages other than English. Students should select a language or languages that will assist in their research or complement a regional focus.

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Anthropology and Archaeology offers instruction in African Studies, Archaeology, Biological Anthropology, Social and Cultural Anthropology, and Global Development Studies.

The Global Development Studies program is an interdisciplinary program designed to provide students with an understanding of the issues, policies, and practices associated with sustainable global and community development in the context of both Canada and internationally. Courses examine social, economic, environmental, and political change as well as issues of poverty, hunger, social justice, colonialism, participatory development, cultural beliefs, human rights, and governance. Students gain practical skills for designing, implementing, and effectively managing community development projects which prepares them for further studies as well as employment in governmental, non-governmental, and other international development-related fields in Canada and abroad.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Global Development Studies Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

Entry to all Honours programs in the department requires a minimum of 75 completed units at the time of application.

Due to high demand, the qualifying grade point average for eligibility for admission to BSc Anthropology and the BA/BSc Archaeology Honours programs is typically set higher than the minimum 3.30 level for the Faculty of Arts.

In addition to applying through the Student Centre, applicants to the BSc Anthropology and the BA/BSc Archaeology Honours programs must complete a supplemental application found on the department website ([arts.ucalgary.ca/anthropology-archaeology](https://arts.ucalgary.ca/anthropology-archaeology)) to ensure that they have a supervisor for their honours thesis.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

**Additional Comments:**

**Courses Constituting the Field of Global Development Studies**

**Type**

Completion Requirement

Students must successfully complete a minimum of 54 units in Courses Constituting the Field of Development Studies and fulfill the Program requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Global Development Studies

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 18 credits from the following:**

- Core Courses: 9 units Global Development Studies 201, 302, 393
- Research Methods: 3 units from Anthropology 411, Communication and Media Studies 313, Geography 483, Political Science 397, 398, 399, Sociology 311, 313, Statistics 213, Sustainability Studies 401
- Capstone Seminar: 3 units Global Development Studies 591
- Honours Seminar: 3 units Global Development Studies 593

Major-Field - Required Options

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Global Development Studies

Major-Field - Required DEST Options

**Earn at least 6 credits from the following:**

- All courses labelled Global Development Studies (DEST) at the 400 level or above

Other Requirements

**Earn at least 6 units from the following:**

- **Language:** 6 units in modern languages other than English. Students should select a language or languages that will assist in their research or complement a regional focus.

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising)

## Introduction

The Department offers programs in Geography and Urban Studies. The Department of Geography also participates in the Environmental Science program, which is housed in the Faculty of Science.

Geography is the study of people, places and patterns on the Earth's surface. Students learn how to analyze the meaning of patterns formed on the Earth's surface by natural processes and human activity. Geographers apply these concepts and information to manage and use Earth's resources to advance human civilization in a sustainable manner. Geography has many facets, and undergraduates learn about all of them: human geography, physical geography, and techniques and methods. They also learn the basics of how to conduct research to answer the many unsolved questions in Geography. Because Geography is so broad in scope, geographers work in a wide variety of jobs. They are, above all, specialists in putting together information from a wide variety of disciplines to arrive at solutions to problems involving location and spatial relationships - such as planning (urban, transportation or tourism, for example), environmental impact, transportation or resource management.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Geography) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

Simple Requisites

Faculty of Arts Regulations

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

## Courses Constituting the Field of Geography

**Type**

Completion Requirement

Courses Constituting the Field of Geography

Students must successfully complete a minimum of units 48 units to a maximum of 60 units in Courses Constituting the Field of Geography while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Geography

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 24 credits from the following:**

- Foundation: 3 units from Geography 204, 254, 280, 303, 324, 326, 328, 330
- Foundation: 12 units Geography 352, 354, 380, 391
- Foundation: 3 units from Geography 308, 310
- Depth: 6 units Geography 483, 485

Major-Field - Required Options

Complete a total of 24 units from Courses Constituting the Field of Geography:

- Depth: 6 units at the 400 level from List A
- Advanced:
  - 9 units at the 500 level from List A or B
  - 3 units at the 500 level from List C
- Upper-level options: 6 units at the 400 level or above from List A or B or C

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Geography

**Additional Comments:**

## Degree Options

**Type**

## Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Enroll in the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department offers programs in Geography and Urban Studies. The Department of Geography also participates in the Environmental Science program, which is housed in the Faculty of Science.

Geography is the study of people, places and patterns on the Earth's surface. Students learn how to analyze the meaning of patterns formed on the Earth's surface by natural processes and human activity. Geographers apply these concepts and information to manage and use Earth's resources to advance human civilization in a sustainable manner. Geography has many facets, and undergraduates learn about all of them: human geography, physical geography, and techniques and methods. They also learn the basics of how to conduct research to answer the many unsolved questions in Geography. Because Geography is so broad in scope, geographers work in a wide variety of jobs. They are, above all, specialists in putting together information from a wide variety of disciplines to arrive at solutions to problems involving location and spatial relationships - such as planning (urban, transportation or tourism, for example), environmental impact, transportation or resource management.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Geography) Program must meet the criteria listed in section [A.5 Undergraduate](#)

Degree Admission Requirements of this Calendar.

## Admission to Honours

The Faculty of Arts procedures for admission to the BA or BSc Honours (Geography) and the BSc Honours (Earth Science) are established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: **3. Faculty of Arts Regulations.**

#### Additional Comments:

#### Courses Constituting the Field of Geography

##### Type

Completion Requirement

#### Courses Constituting the Field of Geography

Students must successfully complete a minimum of units 60 units to a maximum of 72 units in Courses Constituting the Field of Geography while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Geography

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 30 credits from the following:**

- Foundation: 3 units from Geography 204, 254, 280, 303, 324, 326, 328, 330
- Foundation: 12 units Geography 352, 354, 380, 391
- Foundation: 3 units from Geography 308, 310
- Depth: 6 units Geography 483, 485
- Honours Thesis: 6 units Geography 595, 598

## Major-Field - Required Options

Complete a total of 30 units from Courses Constituting the Field of Geography:

- Depth: 6 units at the 400 level from List A
- Advanced:
  - 9 units at the 500 level from List A or B
  - 6 units at the 500 level from List C
- Upper-level options: 9 units at the 400 level or above from List A or B or C

Earn at least 30 credits from the following:

- Courses Constituting the Field of Geography

Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department offers programs in Geography and Urban Studies. The Department of Geography also participates in the Environmental Science program, which is housed in the Faculty of Science.

Geography is the study of people, places and patterns on the Earth's surface. Students learn how to analyze the meaning of patterns formed on the Earth's surface by natural processes and human activity. Geographers apply these concepts and information to manage and use Earth's resources to advance human civilization in a sustainable manner. Geography has many facets, and undergraduates learn about all of them: human geography, physical geography, and techniques and methods. They also learn the basics of how to conduct research to answer the many unsolved questions in Geography. Because Geography is so broad in scope, geographers work in a wide variety of jobs. They are, above all, specialists in putting together information from a wide variety of disciplines to arrive at solutions to problems involving location and spatial relationships - such as planning (urban, transportation or tourism, for example), environmental impact, transportation or resource management.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BSc (Geography) Program must meet the criteria listed in [A.5 Undergraduate Degree Admission Requirements](#) section of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Geography

##### Type

Completion Requirement

#### Courses Constituting the Field of Geography

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Geography while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Geography

#### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

Earn at least 30 credits from the following:

- Foundation: 3 units from Geography 204, 254, 280, 303, 324, 326, 328, 330
- Foundation: 12 units Geography 308, 310, 380, 391
- Foundation: 3 units from Geography 352, 354
- Depth: 6 units Geography 483, 485
- Depth: 3 units Geography 408
- Depth: 3 units from Geography 410, 412

#### Major-Field - Required Options

Complete a total of 18 units from Courses Constituting the Field of Geography:

- Advanced:

9 units at the 500 level from List D

3 units at the 500 level from List C

- Upper-level options: 6 units at the 400 level or above from List B or C or D

Earn at least 18 credits from the following:

- Courses Constituting the Field of Geography

#### Other Requirements

Earn at least 6 credits from the following:

- Science Requirement: 6 units from Biology 241, 243, 307; Chemistry 201 or 211, 203 or 213, 301; Computer Science 217, 219, 231, 233; Data Science 201, 211; Mathematics 211 or 213; Mathematics 249 or 265 or 275; Mathematics 267; Physics 211, 221, 223, 271; any senior courses offered by the Faculty of Science and having one of these as a prerequisite

### Additional Comments:

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates

#### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department offers programs in Geography and Urban Studies. The Department of Geography also participates in the Environmental Science program, which is housed in the Faculty of Science.

Geography is the study of people, places and patterns on the Earth's surface. Students learn how to analyze the meaning of patterns formed on the Earth's surface by natural processes and human activity. Geographers apply these concepts and information to manage and use Earth's resources to advance human civilization in a sustainable manner. Geography has many facets, and undergraduates learn about all of them: human geography, physical geography, and techniques and methods. They also learn the basics of how to conduct research to answer the many unsolved questions in Geography. Because Geography is so broad in scope, geographers work in a wide variety of jobs. They are, above all, specialists in putting together information from a wide variety of disciplines to arrive at solutions to problems involving location and spatial relationships - such as planning (urban, transportation or tourism, for example), environmental impact, transportation or resource management.

## Admissions

Program Admissions Information

## Admission to Honours

Prospective students wishing to enter the BSc (Geography) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

**Courses Constituting the Field of Geography**

**Type**

Completion Requirement

**Courses Constituting the Field of Geography**

Students must successfully complete a minimum of units 60 units to a maximum of 72 units in Courses Constituting the Field of Geography while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Geography

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Major-Field - Specified Courses**

**Earn at least 36 credits from the following:**

- Foundation: 3 units from Geography 204, 254, 280, 303, 324, 326, 328, 330
- Foundation: 12 units Geography 308, 310, 380, 391
- Foundation: 3 units from Geography 352, 354
- Depth: 6 units Geography 483, 485
- Depth: 3 units Geography 408
- Depth: 3 units from Geography 410, 412
- Honours Thesis: 6 units Geography 595, 598

**Major-Field - Required Options**

Complete a total of 24 units from Courses Constituting the Field of Geography:

- Advanced: 9 units at the 500 level from List D
- Advanced: 6 units at the 500 level from List C
- Upper-level options: 9 units at the 400 level or above from List B or C or D

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Geography

**Other Requirements**

Science Requirement: a total of 12 units from the following:

- 9 units from Biology 241, 243, 307; Chemistry 201 or 211, 203 or 213, 301; Physics 211, 221, 223, 271;
- 3 units from Computer Science 217, 219, 231, 233; Data Science 201, 211; Mathematics 211, 213, 249, 265, 267, 275.

**Earn at least 12 credits from the following:**

- Science Requirement: 6 units from Biology 241, 243, 307; Chemistry 201 or 211, 203 or 213, 301; Computer Science 217, 219, 231, 233; Data Science 201, 211; Mathematics 211 or 213; Mathematics 249 or 265 or 275;

Mathematics 267; Physics 211, 221, 223, 271; any senior courses offered by the Faculty of Science and having one of these as a prerequisite

Any senior courses offered by the Faculty of Science and having one of these as a prerequisite may be substituted for a course in this list.

## Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

## Additional Comments:

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts requirements, the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Twelve units in a two-year period, including History and Philosophy of Physical or Human Geography, and at least one graduate-level methods course in Geography.

b) Four semesters of [GEOG601 Grad Research Seminar](#) (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.

c) An approved thesis proposal completed within the first year of the program.

For detailed information on courses and program requirements please refer to: [geog.ucalgary.ca](http://geog.ucalgary.ca).

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

### Time Limit

Expected completion time is two years. Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

Each thesis-based graduate student has a supervisor appointed upon entry to the program.

## Research Proposal Requirements

Thesis-based Master's students normally complete a written thesis proposal, approved by the supervisor and two additional examiners, within twelve months of registration in the program.

## Thesis Examination

Thesis examinations are open.

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

*Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

The Master of Geographic Information Systems (MGIS), is a course-based program with a research component. The MGIS has a scheduled break in July and August. The program may be completed on a full-or part-time basis. Students can apply for direct entry admission to the MGIS degree or apply to the MGIS via the ladder pathway after completion of the [GCERT Geos](#).

### Laddered Pathway from the Graduate Certificate in Geospatial Information Technology to the Master of Geographic Information Systems

Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Master of Geographic Information Systems within five years of beginning the certificate.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-master-geographic-information-systems-course-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-master-geographic-information-systems-course-based).

- a) A statement of interest outlining the applicant's goals, motivation for applying to the program, and research area of interest.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

For the academic background requirements for the MGIS program or the Graduate Certificate in Geospatial Information Technology, the Department will accept a four-year BA or BSc degree in Geography or in any related field that makes use of spatial data. Examples include, but are not limited to: Anthropology, Archaeology, Biological Sciences, Computer Science, Ecology, Environmental Science, Geology/Geophysics, Geomatics Engineering, History, Management, Mathematics, Political Science, Psychology, Tourism, Transportation Studies or Engineering, and Urban Studies.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

The MGIS requires 30 units of courses\*. At least 24 units of these must be at the 600 level or higher; the remaining 6 units may be at the 500 level. These will include:

- a) Three core courses (9 units) in Geographic Information Sciences in the areas of Remote Sensing, Spatial Analysis and Geographic Information Systems:

##### Complete ALL of the following Courses:

- GEOG633 - Research & Applications in Remote Sensing  
**AND** GEOG639 - Adv Spatial Analysis & Modeling  
**AND** GEOG647 - Adv Res & Appl In Geog Info Syst

- b) Two research-based courses (6 units) related to the area of Geographic Information Science:

##### Complete ALL of the following Courses:

- GEOG681 - Geographic Information Science Project: Theoretical Issues  
**AND** GEOG683 - Geographic Information Science Project: Application

#### Additional Comments:

- c) Five additional courses (15 units) approved by the Graduate Program Director.

\* Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Master of Geographic Information Systems within five years of beginning the certificate.

Participation in the annual graduate student Department conference is recommended.

For course-based students, departures from regular departmental program/course requirements may be recommended on an individual basis with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### Flexible Grade Option (CG Grade)

The department of Geography will not permit the Flexible Grade Option (CG Grade) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

MGIS students are allowed a maximum of 6 units credit at the 500 level.

#### Time Limit

Minimum completion time is 16 months and maximum completion time is six years.

#### Required Examination

##### Type

Completion Requirement

##### Additional Comments:

#### Comprehensive Examination

MGIS comprehensive examination will be held as part of GEOG683 GeogInfoScieProj:Application and be based on project and course work. MGIS students will be examined on their comprehensive understanding of course material and their integrated professional knowledge/conception of geographic information science. Details about the timing and structure of the comprehensive examination can be found in the Department of Geography's Course-Based Program Handbook. Please contact the Graduate Program Director to request a copy of the Department of Geography's Course-Based Program Handbook.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

For information on awards, see the Awards and Financial Assistance section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-master-science-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-master-science-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Arts requirements, the Department requires the following:

- a) Twelve units in a two-year period, including History and Philosophy of Physical or Human Geography, and at least one graduate-level methods course in Geography.
- b) Four semesters of [GEOG601 Grad Research Seminar](#) (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.
- c) An approved thesis proposal completed within the first year of the program.

For detailed information on courses and program requirements please refer to: [geog.ucalgary.ca](http://geog.ucalgary.ca).

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The department of Geography will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

## Time Limit

Expected completion time is two years. Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Each thesis-based graduate student has a supervisor appointed upon entry to the program.

## Research Proposal Requirements

Thesis-based Master's students normally complete a written thesis proposal, approved by the supervisor and two additional examiners, within twelve months of registration in the program.

## Thesis Examination

Thesis examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) Six units during the first two years in program, including History and Philosophy of Physical or Human Geography.
- b) Four semesters of [GEOG601 Grad Research Seminar](#) (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.

For detailed information on courses and program requirements please refer to: <https://arts.ucalgary.ca/geography>.

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the Flexible Grade Option (CG Grade) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

### Time Limit

Expected completion time is four years . Maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Each thesis-based graduate student has a supervisor appointed upon entry to the program. For PhD students, a supervisory committee should be appointed within three months of the appointment of supervisor.

### Research Proposal

Doctoral students must complete a written thesis proposal, approved by the supervisory committee, within twenty months of registration in the program.

### Candidacy

PhD candidacy requirements include a written and an oral Field of Study examination. Specific details of the examination format and other candidacy requirements can be found on the Geography website at <https://geog.ucalgary.ca/graduate/regulations>.

## Thesis Examination

Thesis examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](http://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](http://arts.ucalgary.ca/advising).

## Introduction

The Greek and Roman Studies program explores the ancient Mediterranean world through its languages (principally ancient Greek and Latin), history, literature, religion, mythology, art and architecture. Students are introduced to methods of textual analysis as well as the careful examination of material remains. Since the traditions of ancient Greece and Rome are foundational to modern western culture, their study is invaluable not only for their own sake, but also because of their continued relevance today.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Greek and Roman Studies) Program should refer to the Faculty of Arts section **3.1 Admission** and meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements**.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree Requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

##### Additional Comments:

#### Courses Constituting the Field of Greek and Roman Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Greek and Roman Studies while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Greek and Roman Studies

##### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 18 credits from the following:

- 300-Level Courses: 18 units of courses labelled Greek and Roman Studies at the 300 level

#### Major-Field - Required Options

- *Upper-Level Courses*: 12 units from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin) at the 400 or 500 levels.
- *Greek and Roman Studies Options*: 18 units from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin).

##### Earn at least 30 credits from the following:

- Courses Constituting the Field of Greek and Roman Studies

#### Other Requirements

##### Earn at least 6 credits from the following:

- **Language Requirement:** 6 units in a single language other than English, which will normally be Greek or Latin

Courses taken in Greek (GREK) and/or Latin (LATI) also count toward *Upper-Level Courses* and *Greek and Roman Studies Options* requirements as applicable.

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Greek and Roman Studies program explores the ancient Mediterranean world through its languages (principally ancient Greek and Latin), history, literature, religion, mythology, art and architecture. Students are introduced to methods of textual analysis as well as the careful examination of material remains. Since the traditions of ancient Greece and Rome are foundational to modern western culture, their study is invaluable not only for their own sake, but also because of their continued relevance today.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Greek and Roman Studies) Program should refer to the Faculty of Arts section [3.1 Admission](#) and meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree Requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Greek and Roman Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 69 units to a maximum of 72 units in Courses Constituting the Field of Greek and Roman Studies while fulfilling the Program Requirements

**Earn at least 69 credits from the following:**

- Courses Constituting the Field of Greek and Roman Studies

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 24 credits from the following:**

- 300-Level Courses: 18 units of courses labelled Greek and Roman Studies at the 300 level
- Honours Thesis: 6 units Greek and Roman Studies 504

Major-Field - Required Options

- *Upper-Level Courses*: An additional 15 units at the 400 or above with 3 units at the 500 level from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin).
- *Greek and Roman Studies Options*: 30 units from Courses Constituting the Field of Greek and Roman Studies (inclusive of courses in Greek and Latin).

Earn at least 45 credits from the following:

- Courses Constituting the Field of Greek and Roman Studies

Major-Field - Language Requirement

- Inclusive of courses used to satisfy requirements *Upper-Level Courses* and *Greek and Roman Studies Options*, 18 units in either Greek (GREK) or Latin (LATI) or 12 units in each of these languages.

Earn at least 18 credits from the following:

- Courses labelled Greek
- Courses labelled Latin

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Minor Programs
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Overlapping Programs

Programs in Greek and Roman Studies cannot be taken in conjunction with Ancient and Medieval History. This restriction applies to Double Majors, Combined Degrees and Second Baccalaureate Degrees and also to most Major-plus-Minor combinations.

Additional Comments:

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-course-based](https://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-course-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- b) All research areas require proficiency in reading Latin and/or Greek.
- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) **GRST603 Res & Professional Training**, first-year course on research and professional training.
- b) 24 units of other seminar courses; these may include up to 6 units outside the department if relevant to the student's particular interests in the field.
- c) 6 units (four courses) of directed studies in Greek and Latin texts ([GREK607 Directed Studies](#) or [LATI607 Directed Studies](#)), normally taken in Fall and Winter Terms of the first and second year (worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.
- d) Reading knowledge of French or German or Italian.

The department may require up to two additional courses (6 units) in order to ensure sufficient preparation in relevant areas for the MA. Students are advised of any such requirements upon entry into the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Contact department for information.

### Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not more than four courses (12 units) in the course-based program, may be taken at the 500 level.

## Time Limit

Students studying on a full-time basis are expected to complete the Master's program in two years. Students in course-based master's programs must complete their degrees within six years.

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- b) All research areas require proficiency in reading Latin and/or Greek.
- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) **GRST603 Res & Professional Training**, first-year course on research and professional training.
- b) 12 units of other seminar courses, normally taken in the first year of the program; these may include up to 6 units outside the department if appropriate to the area of specialization.
- c) 6 units (four courses) of directed studies in Greek and Latin texts (**GREK607 Directed Studies** or **LATI607 Directed Studies**), normally taken in Fall and Winter Terms of the first and second year (worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.

- d) Reading knowledge of French or German or Italian into English.
- e) A thesis of approximately 20,000 words, with oral examination.

The department may require up to two additional courses (6 units) in order to ensure sufficient preparation in relevant areas for the MA. Students are advised of any such requirements upon entry into the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Contact department for information.

## Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not more than two of the courses (6 units) required in the thesis-based MA program may be taken at the 500 level.

## Time Limit

Students studying on a full-time basis are expected to complete the Master's program in two years. Students in thesis-based master's programs must complete their degrees within four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director is normally the interim supervisor for a master's student entering the program, and will assist the student to find a supervisor within eight months of entering the program. The appointment of a supervisor is subject to approval by the Department Head.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. The department can offer advice on identifying sources.

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- b) All research areas require proficiency in reading Latin and/or Greek.
- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) For the PhD, an MA is required.
- e) Two letters of reference.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) **GRST603 Res & Professional Training**, first-year course on research and professional training unless already taken at the Master's level.
- b) A minimum of 12 units of other graduate seminar courses; these may include up to 6 units outside the department if appropriate to the area of specialization.

c) 6 units (four courses) of directed studies in Greek and Latin texts ([GREK607 Directed Studies](#) or [LATI607 Directed Studies](#), worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.

d) Reading knowledge of two of the three following modern languages into English, French, German or Italian, which is normally completed by passing examinations set by the department.

e) A twenty-page thesis proposal.

f) A thesis of about 75,000 words, followed by an oral examination.

The department may require up to four additional courses (12 units) in order to ensure sufficient preparation in relevant areas for the PhD. Students are advised of any such requirements upon entry into the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Contact department for information.

## Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

For the PhD program, students are expected to complete their degrees within six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Doctoral students are expected to have a supervisor upon entry. The appointment of a supervisor is subject to approval by the Department Head.

### Candidacy

To be admitted to candidacy, doctoral students must successfully complete a written and oral field of study examinations and an oral examination on the written thesis proposal. See [clare.ucalgary.ca/graduate/phd-candidacy-policies](http://clare.ucalgary.ca/graduate/phd-candidacy-policies) for more information.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. The department can offer advice on identifying sources.

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

#### Laddered Pathway from the Graduate Certificate in Geospatial Information Technology to the Master of Geographic Information Systems

Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the [MGIS - Geo](#) within five years of beginning the certificate.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/geospatial-information-technology-certificate](http://grad.ucalgary.ca/future-students/explore-programs/geospatial-information-technology-certificate).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- a) A statement of interest outlining the applicant's goals, motivation for applying to the program, and research area of interest.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

For the academic background requirements for the MGIS program or the Graduate Certificate in Geospatial Information Technology, the Department will accept a four-year BA or BSc degree in Geography or in any related field that makes use of spatial data. Examples include, but are not limited to: Anthropology, Archaeology, Biological Sciences, Computer Science, Ecology, Environmental Science, Geology/Geophysics, Geomatics Engineering, History, Management, Mathematics, Political Science, Psychology, Tourism, Transportation Studies or Engineering, and Urban Studies.

## Program Details

### Simple Requisites

## Program Requirements

### Program/Course Requirements

#### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

**Complete ALL of the following Courses:**

- GEOG680 - Principles of Digital Cartography and Geovisualization  
**AND** GEOG682 - Fundamentals of Geographic Information Science  
**AND** GEOG684 - Fundamentals of Remote Sensing  
**AND** GEOG686 - Applied Statistics and Geospatial Analysis

#### Additional Comments:

For course-based students, departures from regular departmental program/course requirements may be recommended on an individual basis with approval from the Graduate Program Director.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate courses towards the Graduate Certificate in Geospatial Information Technology.

### Time Limit

The expected completion time is four months to a maximum completion time of two years.

### Supervisory Assignments

The program will be appointed a faculty member who will act as an academic advisor.

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/philosophy](https://arts.ucalgary.ca/philosophy)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Gender and Sexuality Studies Major program is designed to provide students with knowledge of the rapidly developing disciplinary and interdisciplinary literature in the field, while providing them with an understanding of the reasons for the development of a feminist scholarship. From its activist and academic perspective, the program will help prepare students for careers in government, social work, and business, while also providing them with a mode of analysis applicable to related fields, and to their own lives.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Philosophy or Gender and Sexuality Studies) Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar. Annual application deadlines are found in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)
- Faculty of Arts - Degrees with a Double Major

**Additional Comments:**

### Courses Constituting the Field of Gender and Sexuality Studies

#### Type

Completion Requirement

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of Gender and Sexuality Studies while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Gender and Sexuality Studies

Additional Comments:

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

Earn at least 12 credits from the following:

- Core Courses: 12 units Gender and Sexuality Studies 201\*, 311, 315 and 405

\*Students entering the program in their third or fourth year of study may apply to the Program Co-ordinator to have an additional Gender and Sexuality Studies Option counted in lieu of Gender and Sexuality Studies 201.

Gender and Sexuality Studies Options

Earn at least 36 credits from the following:

- Courses Constituting the Field of Gender and Sexuality Studies

Additional Comments:

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: <https://arts.ucalgary.ca/philosophy>

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Gender and Sexuality Studies Major program is designed to provide students with knowledge of the rapidly developing disciplinary and interdisciplinary literature in the field, while providing them with an understanding of the reasons for the development of a feminist scholarship. From its activist and academic perspective, the program will help prepare students for careers in government, social work, and business, while also providing them with a mode of analysis applicable to related fields, and to their own lives.

## Admissions

### Program Admissions Information

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Students majoring in Gender and Sexuality Studies are eligible to apply only if they will complete the program during the following academic year. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

#### Courses Constituting the Field of Gender and Sexuality Studies

##### Type

Completion Requirement

successfully complete a minimum of 54 units in Courses Constituting the Field of Gender and Sexuality Studies while fulfilling the Program Requirements.

Students must successfully complete a minimum of 54 units in Courses Constituting the Field of Gender and Sexuality Studies while fulfilling the Program Requirements.

##### Earn at least 54 credits from the following:

- Courses Constituting the Field of Gender and Sexuality Studies

#### Additional Comments:

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

Earn at least 18 credits from the following:

- Core Courses: 12 units Gender and Sexuality Studies 201\*, 311, 315 and 405
- Undergraduate Thesis: 6 units Gender and Sexuality Studies 590\*\*

\*Students entering the program in their third or fourth year of study may apply to the Program Co-ordinator to have an additional Gender and Sexuality Studies Option counted in lieu of Gender and Sexuality Studies 201.

\*\*A grade of "B-" or higher in Gender and Sexuality Studies 590 is required for graduation with the BA Honours degree.

Major-Field Required Options

Earn at least 36 credits from the following:

- Courses Constituting the Field of Gender and Sexuality Studies

Additional Comments:

## Degree Options

### Type

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/history](https://arts.ucalgary.ca/history)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of History offers instruction in a broad range of historical fields. The Programs in History provide a broad liberal arts education, with widespread application. The BA Honours in History deepens the foundation in historical studies and provides excellent preparation for graduate studies in history as well as fields such as education, law, journalism and public administration.

The Department strongly recommends that History students do not concentrate their studies in one period or thematic area. The Department encourages breadth in History and advises students to take courses about different chronological eras, in different geographic areas, and from different analytical perspectives.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA History Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

#### Courses Constituting the Field of History

##### Type

Completion Requirement

successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of History while fulfilling the Program Requirements.

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of History while fulfilling the Program Requirements.

#### Earn at least 42 credits from the following:

- Courses Constituting the Field of History

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

Major-Field - Specified Courses

Earn at least 3 credits from the following:

- Practice of History: 3 units History 300

Major-Field - Required Options

- 6 units in Canadian History
- 6 units in History before 1850
- An additional 27 units from Courses Constituting the Field of History

Earn at least 39 credits from the following:

- Courses Constituting the Field of History

*Senior-Level Courses:* Inclusive of the courses used to fulfill the above requirements, 36 units from Courses Constituting the Field of History must be at the 300 level or above, of which:

- A minimum of 12 units at the 400 level
- A minimum of 6 units at the 500 level
- A minimum of 18 units at the 300 level or above

Additional Comments:

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

Programs in History cannot be taken in conjunction with programs in Ancient and Medieval History. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/history](https://arts.ucalgary.ca/history)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of History offers instruction in a broad range of historical fields. The Programs in History provide a broad liberal arts education, with widespread application. The BA Honours in History deepens the foundation in historical studies and provides excellent preparation for graduate studies in history as well as fields such as education, law, journalism and public administration.

The Department strongly recommends that History students do not concentrate their studies in one period or thematic area. The Department encourages breadth in History and advises students to take courses about different chronological eras, in different geographic areas, and from different analytical perspectives.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA History Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

### Admission to the Honours

The Faculty of Arts procedures for Admission to BA Honours in History established in section 3.3.2 Honours Degrees are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

In addition to having successfully completed at least 30 units of post-secondary study, students must have completed at least 3 units in History to enter the Honours program. The Honours Advisor will advise anyone who might be interested in joining the program. In addition to completing the online application in the Student Centre by the application deadline, a supplemental application must be submitted by January 15. The supplemental application can be found on the Department of History website ([arts.ucalgary.ca/history](http://arts.ucalgary.ca/history)). Students are encouraged to consult with the Honours Advisor well before the deadline to determine their eligibility.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

#### Courses Constituting the Field of History

##### Type

## Completion Requirement

Students must successfully complete a minimum of 54 units and a maximum of 72 units in Courses Constituting the Field of History while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of History

## Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 15 credits from the following:**

- Practice of History: 3 units History 300
- Honours Seminar, Readings and Essay: 12 units History 496, 597, 598

#### Major-Field - Required Options

From the Courses Constituting the Field of History, complete:

- 6 units in Canadian History
- 6 units in History before 1850
- An additional 27 units from Courses Constituting the Field of History

**Earn at least 39 credits from the following:**

- Courses Constituting the Field of History

*Senior-Level Courses:* Inclusive of the courses used to fulfill the above requirements, students must complete 51 units from Courses Constituting the Field of History at the 300 level or above, of which:

- 12 units must be at the 400 level
- 15 units must be at the 500 level
- 24 units must be at the 300 level or above

#### Language Requirement

**6 units in a single language other than English relevant to a student's studies. The choice of language must be approved by the Honours Co-ordinator.**

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates

- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

## Overlapping Programs

Programs in History cannot be taken in conjunction with programs in Ancient and Medieval History. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

### Additional Comments:

## Overview

### General Program Information

The one-year, course-based MA program includes significant independent research and is SSHRC-eligible. It is appropriate for students who intend to proceed to doctoral studies.

This is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Students in the course-based program are expected to enrol full-time but part-time status may be considered with approval from the Graduate Program Director.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-ma-course>

In addition to the requirements of the Faculties of Graduate Studies and Arts, the Department requires:

- a) Normally, a four-year undergraduate program with honours or a major in History.
- b) A minimum admission grade point average of 3.40 on a four-point scale over the final 60 units of the undergraduate degree.
- c) A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).
- d) A statement of research interest.
- e) Two reference letters.
- f) A curriculum vitae.
- g) The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.

See [website](#) for further application details.

## Program Details

Simple Requirements

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

#### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) A minimum of 24 units of coursework:

- [HTST651 Research Essay I](#) as preparation for the Major Research Essay (MRE)
- [HTST653 Research Essay II](#), in which the MRE, normally around 9,000 words in length (including notes, charts, tables and appendices, but excluding bibliography), is written. The MRE must be written like a scholarly research article, and it will be marked by the student's advisor and one additional faculty member.
- [HTST690 Historiography & Theories of Hist](#)
- 15 units of History graduate courses over two semesters; in instances where there are no graduate courses being offered in the student's field of study, students may, with permission of the supervisor and graduate program director, take one 500-level undergraduate History course on the understanding that extra coursework will be required.

b) Normally, a demonstration of reading proficiency in a language other than English and related to the student's research interests before the MRE can be accepted. Please refer to the subsection below for further details.

#### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

#### Copyediting

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Department of History will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Refer to Program/Course Requirements.

## Time Limit

Expected completion time for full-time students is 12 months, and maximum completion time is four years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department [website](#).

## Overview

### General Program Information

All thesis-based students are considered full-time.

### Specializations:

- History and Philosophy of Science (MA, thesis-based only)\*

\*This specialization is offered in co-operation with the Department of Philosophy.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-ma-thesis>

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

- Normally, a four-year undergraduate program with honours or a major in History.
- A minimum admission grade point average of 3.40 on a four-point scale over the final 60 units of the undergraduate degree.
- A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).
- A statement of research interest.
- Two reference letters.
- A curriculum vitae.

g) The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.

See [website](#) for further application details.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) A minimum of 15 units of coursework:

- [HTST690 Historiography&TheoriesOfHist](#) (3 units); plus
- 12 units of History graduate courses over two terms; in instances where there are no graduate courses being offered in the student's field of study, students may, with approval of the supervisor and graduate program director, take one 500-level undergraduate History course on the understanding that extra coursework will be required.

Students may choose 3 units outside of the Department (requiring approval from the supervisor and graduate program director).

Students in the History and Philosophy of Science specialization may, with approval of the supervisor and graduate program director, take Philosophy courses to fulfill course requirements for the degree.

b) Normally, a demonstration of reading proficiency in a language other than English and related to the major field of study prior to the oral thesis defence. Please refer to the subsection below for further details.

c) Completion and successful oral defense of an original thesis, normally around 30,000 words in length (including notes, charts, tables and appendices, but excluding bibliography).

#### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

#### Copyediting

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Department of History will allow students to pursue the Flexible Grade Option (CG Grade) for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Students enrolled in the Master of Arts thesis program may apply for no more than one 500-level course for graduate credit, subject to the approval of the Supervisor and Graduate Program Director. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

## Time Limit

Expected completion time is two years, and maximum completion time is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Admission to the Master of Arts (thesis-based) is dependent upon the agreement of a faculty member to supervise in an interim capacity. Upon acceptance into the program, students are assigned an interim supervisor who will normally become the permanent supervisor three months into the student's program. Supervisors must be assigned within 6 months of the first registration.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department [website](#).

## Overview

### General Program Information

All thesis-based students are considered full-time.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-phd>

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

- Normally, a completed four-year undergraduate program with honours or a major in History and a completed Master of Arts degree or the equivalent in History or in a related discipline.
- A grade point average of 3.70 on a four-point scale in History at the graduate level.
- A detailed statement of research interest.
- A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).
- Two reference letters.
- A curriculum vitae.
- The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.

See [website](#) for further application details.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) A minimum of 12 units of coursework at the graduate level, including courses in the primary and secondary areas. These courses include:

- 3 units in the primary area as a [HTST791 Conf Course Special Top \(Adv\)](#) reading course;
- 3 units in the secondary area as a [HTST791 Conf Course Special Top \(Adv\)](#) reading course;

- 6 additional units including [HIST 1690 Historiography & Theories of Hist](#) (3 units), if not completed in a student's MA program. Among these, the student may also choose 3 units outside the Department (requiring the supervisor's and graduate program director's approval).

b) Normally, a demonstration of reading proficiency in a language other than English and relevant to the student's research prior to the candidacy examination. Please refer to the subsection below for further details.

c) Written and oral candidacy examinations in primary and secondary areas.

d) Submission and successful defense of an original thesis, normally 80,000 - 100,000 words in length (including notes, charts, tables and appendices, but excluding bibliography).

### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

### Copyediting

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Department of History will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Expected completion time is four years, and maximum completion time is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

Admission to the PhD is dependent upon the agreement of a faculty member to supervise in an interim capacity. Upon acceptance into the program, students are assigned an interim supervisor who will normally become the permanent supervisor three months into the student's program. Supervisors must be assigned within 6 months of the first registration.

The supervisor establishes a doctoral supervisory committee in consultation with the student. The Supervisory Committee consists of the primary area supervisor and a secondary area specialist with the third member being a faculty member, normally outside the department, whose area of expertise is in the field of study for the student. The supervisory committee must be selected within three months of the permanent supervisor's appointment (no later than March of the first year of a program).

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for Candidacy and Thesis Examinations, the Department requires:

### Candidacy

Doctoral students must pass oral and written candidacy examinations in their primary and secondary areas. For complete details of candidacy requirements and the examination format, see <https://arts.ucalgary.ca/history/future-students/graduate/phd-candidacy-requirements>.

### Thesis Examinations

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department [website](#).

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

International Indigenous Studies

Website: [arts.ucalgary.ca/international-indigenous-studies](https://arts.ucalgary.ca/international-indigenous-studies)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

The Department offers an interdisciplinary major in International Indigenous Studies. The BA (International Indigenous Studies)

focuses on the culture, history, politics, and knowledge traditions of Indigenous peoples of Turtle Island and around the world. Students will deploy methods and tools from a wide variety of academic disciplines as they engage with issues of importance to Indigenous peoples.

## Introduction

The Department of Political Science offers an interdisciplinary major in International Indigenous Studies. The BA (International Indigenous Studies) focuses on the culture, history, politics, and knowledge traditions of Indigenous peoples of Turtle Island and around the world. Students will deploy methods and tools from a wide variety of academic disciplines as they engage with issues of importance to Indigenous peoples.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (International Indigenous Studies) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of International Indigenous Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of International Indigenous Studies while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of International Indigenous Studies

#### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Core Courses

24 units including:

- a. 15 units Indigenous Studies 201, 303, 345, 407, 415;
- b. 6 additional units from the Core Courses in Courses Constituting the Field of International Indigenous Studies, excluding the courses in (a) above;
- c. 3 units Language Requirement: Indigenous Languages 301.

**Earn at least 24 credits from the following:**

- A. Core Courses: Anthropology 346; English 376; History 345, 443; Indigenous Studies 201, 303, 345, 407, 415; Indigenous Languages 301; Political Science 408; Sociology 307

#### Supporting Courses

An additional 24 units from Courses Constituting the Field of International Indigenous Studies, including:

- a. 6 units from Canadian Focus;
- b. 9 units from International Focus;
- c. At least 6 units used to fulfill the Supporting Courses requirement must be at the 400 level or above.

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of International Indigenous Studies

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Music offers a four-year Bachelor of Music (BMus) Degree that is designed for students wishing to enter a professional career in music, as performers, teachers, composers, sound designers, theorists, historians or musicologists. The BMus degree provides the opportunity for students to Major in Performance, Composition or Integrated Studies. In addition there is a major in Music Education that is available in the context of a five-year concurrent BMus/Bachelor of Education degree for students wishing to pursue the Secondary Route. Students wishing to pursue the Elementary Route should complete a BA Music/Bachelor of Education degree. All BMus programs have a common first year.

The Major is designed for students looking to build strong musical skills in a comprehensive music degree. The flexibility of years three and four allows students to gain a broad musical knowledge (for example, equal parts Music History, Music Performance and Music Theory and Composition) or to fuse two or more areas of musical study in a way that they are unable to in the other majors (for example performance and composition, music and technology, performance and early music studies). Admission to this major will depend on a statement of interest submitted to the Division Lead of Music at the end of the first year of studies.

## Admissions

### Program Admissions Information

### Admission to BMus Degrees

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

Admission requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Admission to BMus Programs is also contingent on an audition and interview where applicants are assessed not only on actual performance, but also on talent, potential, and musicality.

### Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Music Committee. During the audition, applicants will be required to perform repertoire outlined by the audition repertoire suggestions document provided online. Sight-reading and technique may be included as part of the audition.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February /March.

More information about the BMUS Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition).

More information, deadlines and audition forms are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs).

BMus applicants who do not wish to audition in person may submit a video audition. If a recording is submitted, the student may be required to perform a live audition upon arrival. The recording should consist of approximately 10 minutes of music and conform to the requirements for auditions given above. The recording should have been made not more than two months prior to submission, should be of good quality and should be solo or solo with accompaniment. More information and deadlines for the receipt of video or are on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### Audition Requirements

Applicants should be prepared to perform two pieces (except for piano and voice, who should be prepared to perform three pieces), each from a different style period; singers and instrumentalists must provide their own accompanist. Applicants should be prepared to perform for approximately 10 minutes; in addition, they will be asked to sight-read a short piece of music appropriate to their instrument or voice.

Applicants audition on the instrument of their choice or in voice. Those who would like to audition on two instruments may do so. The jury will determine which instrument (or voice) will become the major when the applicant is admitted to a Music program.

Previously accepted students who have not been enrolled in a performance practicum course for a year or more may be required to re-audition in order to determine if the previous level of attainment has been maintained.

### Guidelines

As an indication of the level for admission to Music, the following guidelines should be noted:

- Pianists and vocalists should be prepared to perform repertoire at the Grade X level.
- All others should be prepared to perform repertoire at the Grade VIII level. Students who have not reached the Grade VIII level, but who have a serious interest in a career in music, are encouraged to apply and to audition at the level of performance they have reached. Suggested audition repertoire guidelines are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### Bachelor of Music (BMus) - Major of Integrated Studies

Bachelor of Music students take a common first-year program of study and then select one of the following Major Fields of specialization:

- Composition [Music](#)
- Integrated Studies [BMus in In](#)
- Performance [Music](#)

Admission to each Major is conditional on:

1. The completion of Music 213, 214, 221, 223, 225, and 230 or 232 with an average of "B-" (2.70) or better in those courses.
2. Grades of "B" (3.00) or better in courses in their area: Composition or Performance.
3. Approval of the Division Lead.

### Music Students: Keyboard Proficiency Tests

Music has a required minimum level of keyboard proficiency, which all Bachelor of Music students must achieve in order to graduate. Applicants who have never played a keyboard instrument, or whose proficiency does not meet the required level, will be advised to take remedial work in keyboard, either through the Music Division or privately.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

**Courses Constituting the Field of Music**

**Type**

Completion Requirement

The BMus in Integrated Studies requires the successful completion of a minimum of 66 units to a maximum of 96 units in Courses Constituting the Field of Music while fulfilling the Program Requirements:

**Earn at least 66 credits from the following:**

- Courses Constituting the Field of Music

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Common Core Program for BMus Majors

**Earn at least 39 credits from the following:**

- Common Core Program for BMus Majors

Integrated Studies Requirements

**Earn at least 15 credits from the following:**

- 6 units Music 421, 423
- 9 units from Music Performance\* 301, 303, 305, 311, 313, 315

*\*Ensemble limit: No more than 24 units of courses labelled Music Performance can be counted toward degree requirements.*

Music Options

- 6 units of Music History and Literature, Composition, Sonic Arts, or Theory at the 300 level or above
- 6 units from one of the three options:
  - 3 units of Music History and Literature at the 300 level or above and 3 units of Composition, Sonic Arts, or Theory at the 300 level or above, or
  - 6 units Music 462 (**MUSI462 Junior Performance Project**), or
  - 6 units Music 560 (**MUSI560 Senior Project**)

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Music

Other Requirements

**Earn at least 3 credits from the following:**

- 3 units School of Creative and Performing Arts 499

**Additional Comments:**

**Concentration in Sonic Arts for Music Majors**

**Type**

Completion Requirement

Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

**Complete ANY of the following Requirement Sets:**

- Concentration in Sonic Arts

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Political Science offers an Interdisciplinary Major in International Relations. The BA (International Relations) is designed to expose students to the diversity of approaches to the study of international relations while also providing an opportunity for individualized programs that reflect student interests. The program is structured around a common core set of courses, a regional cluster focused on a specific area of the world, and a thematic specialization focused on major approaches to the study of international relations.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Political Science) Program, the BA (International Relations) Program or the BA (International Indigenous Studies) Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar. Annual application deadlines are found in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

#### Additional Comments:

#### Courses Constituting the Field of International Relations

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of International Relations while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of International Relations

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Core Courses

##### Earn at least 24 credits from the following:

- 24 units Anthropology 203, Economics 201, 203, Geography 254 or 352, History 307, Political Science 381, International Relations 301 and 501

#### Thematic Cluster

12 units, of which at least 6 units must be at the 400 level or above, from a single one of the three thematic clusters: International Political Economy, Security and Strategy, or International Institutions and Governance (refer to Courses Constituting the Field of International Relations).

##### Earn at least 12 credits from the following:

- Courses Constituting the Field of International Relations

#### Regional Cluster

12 units, of which at least 6 units must be at the 400 level or above, from a single one of the six regional clusters: North America; Latin America; Europe; Asia/Pacific; Middle East and North Africa; and Africa (refer to Courses Constituting the Field of International Relations).

Earn at least 12 credits from the following:

- Courses Constituting the Field of International Relations

#### Language Requirement

12 units, either 12 units in a single language other than English or 6 units in each of two languages other than English. It is recommended that students select a language or languages related to their chosen regional cluster.

#### Statistics Requirement

Earn at least 3 credits from the following:

- 3 units from Political Science 399, Statistics 205, 213

**Additional Comments:**

#### Degree Options

##### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

**Additional Comments:**

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

The School recognizes the special role and place that French, as one of our country's two official languages, has played and continues to play in the socio-historical context of Canada. The French programs encompass French Canada, French-speaking Europe, francophone African literatures, critical theories, sociolinguistics and second language teaching.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

### Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

### Placement in Arabic and Chinese Courses

All students wishing to take a course in Arabic or Chinese for the first time must contact the School of Languages, Linguistics, Literatures and Cultures in order to determine the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

For more information please consult the School website at [arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement) (Arabic) and [arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement) (Chinese).

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Language and Culture Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

## Program Details

### Simple Requisites

Faculty of Arts Requirements Type
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## Completion Requirement

### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

### Additional Comments:

## Courses Constituting the Field of Language and Culture

### Type

### Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Language and Culture while fulfilling the Program Requirements.

#### Earn at least 42 credits from the following:

- Courses Constituting the Field of Language and Culture

### Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 12 credits from the following:

- Core: 3 units from Language 200 or Linguistics 201
- Core: 9 units from Language 301, 451, 501

#### Major-Field - Required Options

Language Area(s): 30 units of which 3 units must be at the 400 or 500 level, chosen from one of the following:

1. a minor: 30 units in one of the language areas (declared minor): [ALMC](#), [GERM](#), [ITST](#) or [RUSS](#).

OR

2. a concentration: 18 units in the field of a language area (declared concentration); and an additional 12 units in the field of a single different language area Arabic Language and Muslim Cultures, German, Italian or Russian.

#### Earn at least 30 credits from the following:

- Courses Constituting the Field of Arabic Language and Muslim Cultures
- Courses Constituting the Field of German
- Courses Constituting the Field of Italian Studies
- Courses Constituting the Field of Russian

### Additional Comments:

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

Programs in Language and Culture can only be combined with the major program in Linguistics and Languages if the language or languages in the two programs are different. Students in the Language and Culture program cannot complete a minor in the language that is their primary or secondary language. This restriction applies to Major-plus-minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

#### Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

The School recognizes the special role and place that French, as one of our country's two official languages, has played and continues to play in the socio-historical context of Canada. The French programs encompass French Canada, French-speaking Europe, francophone African literatures, critical theories, sociolinguistics and second language teaching.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

## Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first

day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

### Placement in Arabic and Chinese Courses

All students wishing to take a course in Arabic or Chinese for the first time must contact the School of Languages, Linguistics, Literatures and Cultures in order to determine the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

For more information please consult the School website at [arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement) (Arabic) and [arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement) (Chinese).

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Language and Culture Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours in French, Language and Culture, Linguistics and Spanish

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees

- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

**Courses Constituting the Field of Language and Culture**

**Type**

Completion Requirement

Students must successfully complete a minimum of 54 units to a maximum of 72 units in Courses Constituting the Field of Language and Culture while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Language and Culture

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 18 credits from the following:**

- Core: 3 units from Language 200 or Linguistics 201
- Core: 9 units from Language 301, 451, 501
- Honours Thesis: Language 591

Major-Field - Required Options

Language Area(s): 36 units, of which 3 units must be at the 400 or 500 level, chosen from one of the following:

1. a minor: 30 units in one of the language areas (declared minor): [ALMC](#), [GERM](#), [ITST](#) or [RUSS](#); and 6 additional units in that same language area

OR

2. two declared concentrations: 18 units in the field of a primary language area; and 18 units in the field of a secondary language area: Arabic Language and Muslim Cultures, German, Italian or Russian.

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Arabic Language and Muslim Cultures
- Courses Constituting the Field of German
- Courses Constituting the Field of Italian Studies
- Courses Constituting the Field of Russian

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

**Overlapping Programs**

Programs in Language and Culture can only be combined with the major program in Linguistics and Languages if the language or languages in the two programs are different. Students in the Language and Culture program cannot complete a minor in the language that is their primary or secondary language. This restriction applies to Major-plus-minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

## Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

## Placement in Arabic and Chinese Courses

All students wishing to take a course in Arabic or Chinese for the first time must contact the School of Languages, Linguistics,

## UCalgary

Literatures and Cultures in order to determine the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

For more information please consult the School website at [arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement) (Arabic) and [arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement) (Chinese).

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

### Admissions

#### Program Admissions Information

#### Admission to the Major

Prospective students wishing to enter the BA Linguistics and Language Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Program Details

#### Simple Requisites

##### Faculty of Arts Requirements

##### Type

Completion Requirement

##### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

##### Additional Comments:

##### Courses Constituting the Field of Linguistics and Language

##### Type

Completion Requirement

Students must successfully complete a minimum of 24 units to a maximum of 30 units in Courses Constituting the Field of Linguistics and Language while fulfilling the Program Requirements.

Earn at least 24 credits from the following:

- Courses Constituting the Field of Linguistics and Language

Additional Comments:

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

Earn at least 24 credits from the following:

- 15 units Linguistics 201, 301, 303, 341, 353
- 3 units from: Linguistics 319, 407 and 455
- An additional 6 units in Linguistics.
- At least 6 units, inclusive of the courses used to fulfill requirements above, must be at the 400 level or above.

Major-Field - Required Options

*Language Requirements:* Students must successfully complete a minimum of 24 units to a maximum of 30 units in accordance with the requirements for one of the following language options:

**Fulfill ANY of the following requirements:**

Arabic Option:

A minimum of 24 units from courses labelled Arabic Languages and Muslim Cultures, including **Arabic Language and Muslim Cultures 334**, and at least an additional 6 units at the 400 level.

Earn at least 24 credits from the following:

- All courses labelled Arabic Languages and Muslim Cultures (ALMC)

OR

French Option:

A minimum of 24 units from courses labelled, including **French 329**, and at least an additional 6 units at the 400 and/or 500 level, of which 3 units must be in literature from **Courses Constituting the Field of French**. **French 489.01** is strongly recommended when available.

Earn at least 24 credits from the following:

- All courses labelled French (FREN)

Students choosing the French option and beginning in French 213 should be aware that 30 units will normally be required to complete the French option requirements.

OR

Spanish Option:

A minimum of 24 units from courses labelled Spanish, including **Spanish 405**, and at least an additional 6 units at the 400 and/or 500 level, of which 3 units must be in literature from **Courses Constituting the Field of Spanish**. **Spanish 475** is strongly recommended when available.

Earn at least 24 credits from the following:

- All courses labelled Spanish (SPAN)
- Spanish Literature Courses: Spanish 421, 423, 437, 499, 512, 575

OR

Italian Option:

A minimum of 24 units from courses labelled Italian including at least 6 units at the 400 and/or 500 level.

**Earn at least 24 credits from the following:**

- All courses labelled Italian (ITAL)

OR

German Option:

A minimum of 24 units from courses labelled German, including **German 413** and **415**, and at least an additional 3 units at the 400 or 500 level.

**Earn at least 24 credits from the following:**

- All courses labelled German (GERM)

OR

Russian Option:

A minimum of 24 units from courses labelled Russian, including **Russian 332** and **334**, and at least 6 units at the 400 and/or 500 level.

**Earn at least 24 credits from the following:**

- All courses labelled Russian (RUSS)

OR

Japanese Option:

A minimum of 24 units from courses labelled Japanese, including **Japanese 333**, and at least 6 units at the 400 and/or 500 level.

**Earn at least 24 credits from the following:**

- All courses labelled Japanese (JPNS)

OR

Chinese Option:

A minimum of 24 units from courses labelled Chinese, including **Chinese 333**, and at least 6 units at the 400 and/or 500 level.

**Earn at least 24 credits from the following:**

- All courses labelled Chinese (CHIN)

OR

Ancient and Classical Languages Option:

From the courses listed below in a maximum of two languages, students must successfully complete a minimum of 24 units to a maximum of 30 units, including a minimum of 3 units at the 400 or 500 level:

**Earn at least 24 credits from the following:**

- Greek Language: Greek 201, 203, 301, 303, 401, 403, 551
- Latin Language: Latin 201, 203, 205, 207, 301, 303, 401, 403, 551
- Hebrew Language: Religious Studies 300, 302, 491\*
- Sanskrit Language: Religious Studies 310, 312, 491\*
- Tibetan Language: Religious Studies 314, 316, 491\*
- Classical Chinese: Religious Studies 320, 322, 491\*

*\*Applicable only when the content of the course is appropriate with approval of the Linguistics Undergraduate Advisor.*

### Additional Comments:

### Degree Options

#### Type

#### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Overlapping Programs

Programs in Linguistics cannot be taken in conjunction with the program in Linguistics and Language. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Programs in Language and Culture can only be combined with the major program in Linguistics and Languages if the language or languages in the two programs are different. Students in the Language and Culture program cannot complete a minor in the language that is their primary or secondary language. This restriction applies to Major-plus-minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

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The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

### Admissions

Program Admissions Information

#### Admission to the Major

Prospective students wishing to enter the BA Linguistics Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Program Details

Simple Requisites

#### Faculty of Arts Requirements

Type

Completion Requirement

##### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

Additional Comments:

#### Courses Constituting the Field of Linguistics

Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Linguistics while fulfilling the Program Requirements.

**Earn at least 42 credits from the following:**

- Courses Constituting the Field of Linguistics

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 30 credits from the following:**

- Core: 27 units Linguistics 201, 301, 303, 319, 341, 353, 401, 403, 407
- Experiential Course: 3 units from: Linguistics 316, 416, 441, 453, 467, 505, 571

Major-Field - Required Options

- Linguistics Options: 12 units from Courses Constituting the Field of Linguistics including at least 6 units at the 300-level or above.

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Linguistics

Other Requirements

**Earn at least 9 credits from the following:**

- Language: At least 6 units from courses in languages other than English including the following courses on programming languages: Computer Science 217, 219, 231, 233
- Methods: At least 3 units from the following list of formal-methods courses: Linguistics 560, Philosophy 279, 377, Psychology 300, Sociology 311, Statistics 213

**Note:** In special circumstances, the Undergraduate Advisor may approve the following substitute methods courses: Anthropology 411, Political Science 399 or Sociology 313.

**Additional Comments:**

## Concentrations in Linguistics

### Type

Completion Requirement

Concentrations in Linguistics

Any student who has declared a Linguistics Major is also eligible to declare a **Concentration in Applied Linguistics** or a **Concentration in Speech-Language Sciences**.

**Applied Linguistics** is a wide-ranging field involving career paths in a variety of areas including Second Language Teaching, and Indigenous Studies.

**Speech-Language Sciences** provides an opportunity for students intending to pursue a career path in Speech-Language Pathology.

**Complete ANY of the following Requirement Sets:**

- Concentration in Applied Linguistics
- Concentration in Speech-Language Sciences

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

**Degree Options**

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

**Overlapping Programs**

Programs in Linguistics cannot be taken in conjunction with the program in Linguistics and Language. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

A Linguistics BA with a Concentration in Speech-Language Sciences may not be combined with the Minor in Speech-Language Sciences.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Linguistics Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Admission to Honours in French, Language and Culture, Linguistics and Spanish

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

In addition, for students applying to the Honours Program in Linguistics only, the following is also required:

- Completion of at least 72 units at the time of application.
- Consultation with a potential Honours Supervisor, to be approved by the Undergraduate Advisor in Linguistics. Please see the website for additional details.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Linguistics

##### Type

##### Completion Requirement

Students must successfully complete a minimum of 51 units to a maximum of 72 units in Courses Constituting the Field of Linguistics while fulfilling the Program Requirements.

#### Earn at least 51 credits from the following:

- Courses Constituting the Field of Linguistics

**Additional Comments:**

**Program Requirements**

**Type**

**Completion Requirement**

Major-Field - Specified Courses

**Earn at least 36 credits from the following:**

- **Core:** 27 units Linguistics 201, 301, 303, 319, 341, 353, 401, 403, 407
- **Capstone:** 6 units Linguistics 598
- **Experiential Course:** 3 units from: Linguistics 316, 416, 441, 453, 467, 505, 571

Major-Field - Required Options

- **Linguistics Options:** At least 18 units from Courses Constituting the Field of Linguistics including at least 9 units at the 300-level or above.

**Earn at least 18 credits from the following:**

- **Courses Constituting the Field of Linguistics**
- **Advanced Linguistics:** Of the courses used to fulfill the Linguistics Options and Experiential courses (above):
  1. at least 9 units must be at the 400 level or above, and
  2. at least 3 units must be at the 500 level or above.

Other Requirements

**Earn at least undefined credits from the following:**

- **Language:** At least 6 units from courses in languages other than English including the following courses on programming languages: Computer Science 217, 219, 231, 233
- **Methods:** At least 3 units from the following list of formal-methods courses: Linguistics 560, Philosophy 279, 377, Psychology 300, Sociology 311, Statistics 213
- **Supporting Courses:** 9 units, with 3 units from each of the following three disciplines: Anthropology, Philosophy and Psychology.

**Note:** In special circumstances, the Undergraduate Advisor may approve the following substitute methods courses: Anthropology 411, Political Science 399 or Sociology 313.

**Additional Comments:**

**Concentrations in Linguistics**

**Type**

**Completion Requirement**

Concentrations in Linguistics

Any student who has declared a Linguistics Major is also eligible to declare a **Concentration in Applied Linguistics** or a **Concentration in Speech-Language Sciences**.

**Applied Linguistics** is a wide-ranging field involving career paths in a variety of areas including Second Language Teaching, and Indigenous Studies.

**Speech-Language Sciences** provides an opportunity for students intending to pursue a career path in Speech-Language Pathology.

**Complete ANY of the following Requirement Sets:**

- Concentration in Applied Linguistics
- Concentration in Speech-Language Sciences

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

#### Overlapping Programs

Programs in Linguistics cannot be taken in conjunction with the program in Linguistics and Language. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

A Linguistics BA with a Concentration in Speech-Language Sciences may not be combined with the Minor in Speech-Language Sciences.

Additional Comments:

## Overview

### General Program Information

The Linguistics Graduate Program is offered through the School of Languages, Linguistics, Literatures and Cultures.

The norm is full-time study, but part-time study may also be arranged. Full-time study is defined as in the Graduate Calendar (see **Student Status**) and is not compatible with full-time employment. Status of students with part-time employment will be determined on a case-by-case basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/graduate/degree-programs/linguistics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/linguistics-master-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/linguistics-master-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts **requirements**, the Program requires:

a) Significant undergraduate training in linguistics, normally including at least one course in syntax and one course in phonology.

- b) A statement of purpose specifying the applicant's research interests and reasons for wishing to pursue a Master of Arts degree at the University of Calgary.
- c) A sample of previous work in linguistics or a related field (e.g., an Honours undergraduate thesis, or a course paper).
- d) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Linguistics Graduate Program requires:

- a) Two formal presentations relating to the student's thesis research. The first presentation must take place no later than the end of the second semester, and the second presentation no later than the end of the third semester. Continuation in program is dependent upon these presentations being judged acceptable by the faculty members of the Linguistics program in attendance. A student will have one opportunity to redo each presentation that is judged unacceptable.
- b) A minimum of 18 units, including [LING611 Advanced Syntactic Analysis](#), [LING613 Adv Phonological Analysis](#), and [LING697 Thesis Research Development](#).
- c) [LING600 Intro Grad Studies Linguistics](#).
- d) Knowledge of a language other than English demonstrated to the satisfaction of the Graduate Studies Committee. The following groups will be judged on acceptance to the program to have met the MA language requirement:
  - Students whose mother tongue is not English and who were required to satisfy the English language proficiency requirements for admission to program.
  - Students whose mother tongue is English and who provide evidence of past schooling in another language (e.g., schooling in an immersion program in French, German or a First Nations language).
  - Students whose mother tongue is English and who provide evidence of having completed a foreign language secondary school credit such as Spanish Language Arts 30, or French Language Arts 31.
  - Students whose mother tongue is English and who provide evidence of at least A1 ("Basic User") level of proficiency in another language in the Common European Frame of Reference from a certified testing agency or a recognised academic institution (e.g., university or college) or a recognised language teaching organization.

Students whose mother tongue is English and who cannot provide evidence of prior exposure to another language on admission can meet the MA language requirement during their MA program in the following ways:

- by providing evidence of having received credit for 3 units for a University of Calgary language course, e.g., Chinese 205, French 209, German 202, Japanese 205, Russian 201.
- by providing evidence of having received credit for one of the following courses: Indigenous Languages 205, Indigenous Languages 301, Linguistics 551 or [LING605 Field Methods](#).

It is the responsibility of the student to provide relevant documentation that the MA language requirement has been met. It is strongly recommended that this program requirement be met within the first 16 months of program. It is the responsibility of the supervisor to ensure that the student meets the deadline for completing this requirement.

## Copyediting

Copyediting of the examination version of the thesis is not permitted. Students may make use of a copyeditor or copyediting service for the final version only of the thesis. The name of the copyeditor or copyediting service must appear on the Acknowledgements page.

Acknowledgement is required whether the copyediting was done by a paid professional or by an acquaintance, friend or family member. Fees for copyediting must be assumed by the student.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Linguistics program in the School of Languages, Linguistics, Literatures and Cultures will permit the Flexible Grade Option (CG Grade) for any course offered by the Linguistics program, with the exception of Linguistics 611, 613, 631.03, 651 and 697.

Students may also choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

At the master's level, with the approval of the Graduate Program Director and the School Director, a student may take for credit a maximum of 6 units at the undergraduate level. Normally, only 500-level courses are approved as acceptable, and students must provide evidence that such courses represent a necessary contribution to their program.

### Time Limit

Expected completion time is two years for a master's degree. Maximum completion time is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

A student is assigned a supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and program capacity. This faculty member commits to supervising the student's thesis and to advising and mentoring the student. Since research interests can change while in program, students are free to select a different supervisor after admission to program but will normally finalize supervisory arrangements by the end of the second term of study (usually April) and must finalize supervisory arrangements by the end of the second annual registration. When a student wishes to change supervisor, that choice must be made by mutual agreement between the student and the faculty member concerned, in consultation with the Graduate Program Director.

### Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

#### Financial Assistance

## Type

Completion Requirement

## Additional Comments:

Financial assistance is normally available to qualified students. Funding is provided to full-time students only. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Information on teaching and research assistantships is available on the School of Languages, Linguistics, Literatures and Cultures graduate programs [website](#).

## Overview

### General Program Information

The Linguistics Graduate Program is offered through the School of Languages, Linguistics, Literatures and Cultures.

The norm is full-time study, but part-time study may also be arranged. Full-time study is defined as in the Graduate Calendar (see [Student Status](#)) and is not compatible with full-time employment. Status of students with part-time employment will be determined on a case-by-case basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/graduate/degree-programs/linguistics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/linguistics-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/linguistics-doctor-philosophy-thesis-based)

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Linguistic program requires:

- a) A Master's degree in linguistics, or a Master's degree in a related field with significant training in linguistics at the graduate level, normally including at least one graduate course in syntax and one graduate course in phonology, with a minimum grade point average of 3.40 on a four-point scale.
- b) A statement of purpose specifying the applicant's research interests and reasons for wishing to pursue a doctoral degree at the University of Calgary.
- c) A sample of previous work in linguistics or a related field (e.g., a seminar paper or Master of Arts thesis).
- d) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Linguistics Graduate Program requires:

a) Completion of 18 units in Linguistics beyond the MA, including **LING611 Advanced Syntactic Analysis** and **LING613 Adv Phonological Analysis**. Course requirements are normally completed during the first two years.

Note: No more than 6 units can be taken with the same instructor.

b) **LING600 Intro Grad Studies Linguistics**.

c) Knowledge of a language other than English demonstrated to the satisfaction of the Graduate Studies Committee. The following groups will be judged on acceptance to the program to have met the PhD language requirement:

- Students whose mother tongue is not English and who were required to satisfy the English language proficiency requirements for admission to program.
- Students whose mother tongue is English and who provide evidence of past schooling in another language (e.g., schooling in an immersion program in French, German or a First Nations language).
- Students whose mother tongue is English and who provide evidence of having completed a foreign language secondary school credit such as Spanish Language Arts 30, or French Language Arts 31.
- Students whose mother tongue is English and who provide evidence of at least A1 ("Basic User") level of proficiency in another language in the Common European Frame of Reference from a certified testing agency or a recognised academic institution (e.g., university or college) or a recognised language teaching organization.

Students whose mother tongue is English and who cannot provide evidence of prior exposure to another language on admission can meet the doctoral language requirement during their PhD program in the following ways:

- by providing evidence of having received credit for 3 units for a University of Calgary language course, e.g. Chinese 205, French 209, German 202, or Japanese 205, or Russian 201.
- by providing evidence of having received credit for one of the following courses: Indigenous Languages 205, Indigenous Languages 301, Linguistics 551 or **LING605 Field Methods**.

It is the responsibility of the student to provide relevant documentation that the doctoral language requirement has been met. This program requirement must be met by the time the thesis proposal is submitted. It is the responsibility of the supervisor to ensure that the student meets the deadline for completing this requirement.

## Copyediting

Copyediting of the examination version of the thesis is not permitted. Students may make use of a copyeditor or copyediting service for the final version only of the thesis. The name of the copyeditor or copyediting service must appear on the Acknowledgements page.

Acknowledgement is required whether the copyediting was done by a paid professional or by an acquaintance, friend or family member. Fees for copyediting must be assumed by the student.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Linguistics program in the School of Languages, Linguistics, Literatures and Cultures will permit the Flexible Grade Option (CG Grade) for any course offered by the Linguistics program, with the exception of Linguistics 611, 613, 631.03, 651 and 697.

Students may also choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At the doctoral level, with the approval of the Graduate Program Director and the School Director, a student may take for credit a maximum of 6 units at the undergraduate level. Normally, only 500-level courses are approved as acceptable, and students must provide evidence that such courses represent a necessary contribution to their program.

## Time Limit

Expected completion time is four years for a doctoral degree. Maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

A student is assigned a supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and program capacity. This faculty member commits to supervising the student's thesis and to advising and mentoring the student. Since research interests can change while in program, students are free to select a different supervisor after admission to program but will normally finalize supervisory arrangements by the end of the second term of study (usually April) and must finalize supervisory arrangements by the end of the second annual registration. When a student wishes to change supervisor, that choice must be made by mutual agreement between the student and the faculty member concerned, in consultation with the Graduate Program Director.

Once doctoral students have finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and two other faculty members from the program. One of the two members of this committee may be external to the program. It is desirable to have at least one committee member with supervisory experience at the doctoral level.

See [Supervision](#) for more information.

## Required Examinations

### Candidacy

To be admitted to candidacy, doctoral students must successfully complete an oral and written field of study examination and an oral examination on the thesis proposal. Doctoral students are required to take the field of study Examination after completion of all course work, normally within 26 months of first registration. Students must complete and submit a written thesis proposal to their Supervisory Committee within two months of passing the Field of Study examination.

See [Linguistics Candidacy Requirements](#) for more information.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is normally available to qualified students. Funding is provided to full-time students only. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Information on teaching and research assistantships is available on the School of Languages, Linguistics, Literatures and

Cultures graduate programs [website](#).

## Overview

### General Program Information

The MA degree may be taken on a full-time or a part-time basis.

### Specializations:

- French
- Spanish

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [slllc.ucalgary.ca](http://slllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-course-based](http://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-course-based)

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

- A sufficiently high level of oral and written competence in the target language (a recommended minimum of CEFR level B2, ACTFL Intermediate-High, or equivalent. For CEFR standards, see: [coe.int/lang-CEFR](http://coe.int/lang-CEFR). For ACTFL standards, see: [actfl.org/publications/all](http://actfl.org/publications/all).
- An adequate academic background in one of the fields of Modern Languages, Linguistics, Literary, Film or Cultural Studies or other closely related field.
- An academic writing sample (of approximately 8-15 pages): a term paper, research paper or other writing, which the applicant considers representative of their best work.
- A Statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this program.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- Thirty units, including [LLAC600 Intro Graduate Studies in LLAC](#), [LLAC601 Additional Language Pedagogy](#), and, depending on research perspective, either [LLAC602 Res Methods in Applied Ling](#) or [LLAC603 Thr'y Mthd's Lit Cltr'l Study](#).
- A written essay (of approximately 20 pages), to form the basis for the Capstone Examination.

Applicants lacking the requisite background in language or literature may be admitted as qualifying students. In this case, extra

course work is normally required. A qualifying oral examination based on set texts may be required before the students attain regular Master of Arts status. Courses taken as a qualifying student do not normally count as part of the student's course requirements.

### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

Note: Normally no more than 3 units of Directed Reading may be taken for credit.

a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.

b) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:

- [LANG615 2nd Lang Learning & Technology](#)
- [LANG625 2nd Lang Learn Cult Understand](#)
- [LANG699 Res Sem in 2nd Lang Learning](#)
- [EDER613 Change&InnovationInEducation](#)
- [EDER667 2nd Language Reading & Writing](#)
- [EDER669 Aspect of Secd Lang & Culture](#)
- [EDER696 Special Topics in Education](#)
- DELE/DELF/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

c) MA students in French and Spanish have a knowledge areas requirement that must be satisfied by the first month of the second year in program, or, as appropriate, one month after the completion of course work, whichever occurs first. MA students in French are expected to complete coursework that fulfills five knowledge areas, and MA students in Spanish are expected to complete coursework on all of the knowledge areas.

### Knowledge areas: French

Medieval and Early Modern French Literature and Culture, Modern French Literature and Culture, Contemporary Literature and Culture of France, Franco-Canadian and Québécois Literature and Culture, Francophone Studies (outside Canada), History or Theories of Language, Theories of Culture or Literature.

### Knowledge areas: Spanish

Medieval and early Modern Spanish Literature and Culture, Spanish American Literature and Culture to 1900, Modern and Contemporary Peninsular Literature and Culture, Latin American Literature and Culture since 1900, History or Theories of Language, Theories of Culture or Literature.

When studying an application for admission, the Graduate Program Director, in consultation with the Graduate Committee, will determine, based on undergraduate transcripts, which of the required knowledge areas have not yet been satisfied. Where the appropriateness of a course to fulfill a knowledge area is in doubt, a syllabus and/or a course description will be requested from the applicant. Upon admission, students will be advised of any specific course or other work needed to fulfill this requirement. Unfulfilled knowledge areas may be accomplished by either completing a graduate course in the area, which will form part of the course requirements (or may be in addition to them), or by completing specific readings under the supervision of an area specialist followed by demonstration of good knowledge of the specific area. This will be in the form of a paper written in response to a specific question, followed by an evaluation of the paper and an oral exam with the area specialist and another member of the School.

d) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

**Flexible Grade Option (CG Grade)**

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

**Time Limit**

Expected completion time for full-time students in a course-based MA program is two years. Maximum completion time is six years.

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

The Graduate Program Director is normally the interim supervisor for newly admitted students. Students are expected to choose a permanent supervisor by the end of the second regular academic session after first registration (April 30 for September registrants and December 15 for January registrants). Selection of a supervisor should be by mutual agreement between the student and the staff member concerned, approved by the Graduate Program Director, and is based on the stated research interests of the students, the disciplinary expertise of faculty members and program capacity.

**Capstone Examination**

The course-based programs require a capstone comprehensive examination with a written and an oral component, taken after the completion of all course work and any other requirement such as the knowledge areas requirement. Students are required, as early as possible and, in any case, at least before registering for a final semester, to file the reading list on their chosen area of specialization with the program's Graduate Committee. The list should be drafted after consultation with the student's supervisor and approved by that faculty member.

**Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

The MA degree may be taken on a full-time or a part-time basis.

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### Specializations:

- Applied Linguistics
  - French
  - German
  - Spanish
  - Transcultural Studies
- 

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [slllc.ucalgary.ca](http://slllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-thesis-based)

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In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A sufficiently high level of oral and written competence in the target language (a recommended minimum of CEFR level B2, ACTFL Intermediate-High, or equivalent. For CEFR standards, see: [coe.int/lang-CEFR](http://coe.int/lang-CEFR). For ACTFL standards, see: [actfl.org/publications/all](http://actfl.org/publications/all).
- An adequate academic background in one of the fields of Modern Languages, Linguistics, Literary, Film or Cultural Studies or other closely related field.
- An academic writing sample (of approximately 8-15 pages): a term paper, research paper or other writing, which the applicant considers representative of their best work.
- A Statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this program.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the program requires:

- Eighteen units, including Languages, Literatures and Cultures 600, 601 and, depending on research perspective, either Languages, Literatures and Cultures 602 or 603.
- A scholarly and/or critical thesis (approximately 100 pages).

Applicants lacking the requisite background in language or literature may be admitted as qualifying students. In this case, extra course work is normally required. A qualifying oral examination based on set texts may be required before the students attain regular Master of Arts status. Courses taken as a qualifying student do not normally count as part of the student's course requirements.

### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

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Note: Normally no more than 3 units of Directed Reading may be taken for credit.

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- a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.
- b) Before the end of their second year of study, MA Thesis students are required to make an internal or external presentation relating to their research.
- c) Students in the thesis-based programs are also expected to demonstrate their participation in university-wide research activities by attending internal or external scholarly presentations every year in their programs. A minimum of one workshop on language training (see section (d) below) and at least two other presentations are required. Students should list all presentations attended in their Annual Progress Report.
- d) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:

- [LANG615 2nd Lang Learning & Technology](#)
- [LANG625 2nd Lang Learn Cult Understand](#)
- [LANG699 Res Sem in 2nd Lang Learning](#)
- [EDER613 Change&InnovationInEducation](#)
- [EDER667 2nd Language Reading & Writing](#)
- [EDER669 Aspect of Secd Lang & Culture](#)
- [EDER696 Special Topics in Education](#)
- DELE/Delf/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

- e) MA students in French and Spanish have a knowledge areas requirement that must be satisfied by the first month of the second year in program, or, as appropriate, one month after the completion of course work, whichever occurs first. MA students in French are expected to complete coursework that fulfills five knowledge areas, and MA students in Spanish are expected to complete coursework on all of the knowledge areas.

### Knowledge areas: French

Medieval and Early Modern French Literature and Culture, Modern French Literature and Culture, Contemporary Literature and Culture of France, Franco-Canadian and Québécois Literature and Culture, Francophone Studies (outside Canada), History or Theories of Language, Theories of Culture or Literature.

### Knowledge areas: Spanish

Medieval and early Modern Spanish Literature and Culture, Spanish American Literature and Culture to 1900, Modern and Contemporary Peninsular Literature and Culture, Latin American Literature and Culture since 1900, History or Theories of Language, Theories of Culture or Literature.

When studying an application for admission, the Graduate Program Director, in consultation with the Graduate Committee, will determine, based on undergraduate transcripts, which of the required knowledge areas have not yet been satisfied. Where the appropriateness of a course to fulfill a knowledge area is in doubt, a syllabus and/or a course description will be requested from the applicant. Upon admission, students will be advised of any specific course or other work needed to fulfill this requirement. Unfulfilled knowledge areas may be accomplished by either completing a graduate course in the area, which will form part of the course requirements (or may be in addition to them), or by completing specific readings under the supervision

of an area specialist followed by demonstration of good knowledge of the specific area. This will be in the form of a paper written in response to a specific question, followed by an evaluation of the paper and an oral exam with the area specialist and another member of the School.

f) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

### Flexible Grade Option (CG Grade)

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

### Time Limit

Expected completion time for full-time students in a master's thesis MA program is two years. Maximum completion time is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director is normally the interim supervisor for newly admitted students. Students are expected to choose a permanent supervisor by the end of the second regular academic session after first registration (April 30 for September registrants and December 15 for January registrants). Selection of a supervisor should be by mutual agreement between the student and the staff member concerned, approved by the Graduate Program Director, and is based on the stated research interests of the students, the disciplinary expertise of faculty members and program capacity.

### Research Proposal

Thesis students are required to submit a written thesis proposal thirteen months after initial registration (for September registrants: 1st draft to the supervisor is due by September 1 and the thesis proposal to the Graduate Committee is due by September 30; for January registrants: 1st draft to the supervisor is due by January 2 and the thesis proposal to the Graduate Committee is due by February 1). This proposal should be approximately 1200 words in length and be accompanied by an abstract and an appropriately detailed preliminary bibliography. It should be drafted after consultation with the student's supervisor and have their preliminary approval. These documents will be circulated to the program's Graduate Committee for

approval. Abstracts of proposals may be reproduced for information purposes.

## Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. For information on other funding opportunities, see the **Awards and Financial Assistance** section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

#### Specializations:

- Applied Linguistics
- French
- German\*
- Spanish
- Transcultural Studies

\*As part of the graduate program in German, students may participate in a one-semester exchange with Justus-Liebig-Universität Gießen.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [slllc.ucalgary.ca](http://slllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-doctor-philosophy-thesis-based)

In addition to the **admission requirements** of the Faculties of Graduate Studies and Arts, the Department requires:

- a) A Master of Arts degree in one of LLAC's areas of specialization, or equivalent.
- b) A grade point average of 3.40 (based on a 4-point system) on the work of the last two years of study.

- c) A sufficiently high level of oral and written competence in the target language (CEFR level C1 or equivalent). For CEFR standards, see: [coe.int/lang-CEFR](https://coe.int/lang-CEFR).
- d) An adequate academic background in the discipline.
- e) A research proposal of approximately 2-3 pages.
- f) A sample of critical writing: MA thesis or research paper or other writing, which the applicant considers representative of their best work. Either the sample research paper or the research proposal must be submitted in the target language of study.
- g) A statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this unit.
- h) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Course Requirements: Eighteen units beyond the MA. Courses must include [LLAC600 Intro Graduate Studies in LLAC](#), [LLAC601 Additional Language Pedagogy](#), and, depending on research perspective, either [LLAC602 Res Methods in Applied Ling](#) or [LLAC603 Thr'y Mthd's Lit Cltr'l Study](#), unless these courses were taken in the MA program.

b) A Third Language Requirement: All students must demonstrate, at a minimum, reading comprehension of a language other than English and the target language of the PhD program, at a level sufficient for the use and understanding of scholarly material. This language will normally be related to the student's thesis research. The language requirement is deemed to have been satisfied when the student has either:

(i) successfully completed a fourth semester language course;

(ii) successfully completed a language-proficiency examination designed specifically for graduate students by a relevant academic designated specialist. Such an examination tests the student's reading proficiency, by testing their understanding of a scholarly article;

or (iii) successfully completed a B1 Common European Framework of Reference (CEFR) examination, when available.

c) A thesis.

##### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

**Note:** Normally no more than 3 units of Directed Reading may be taken for credit.

a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.

b) Students in the thesis-based programs are also expected to demonstrate their participation in university-wide research activities by attending internal or external scholarly presentations every year in their programs. A minimum of one workshop on language training (see section (d) below) and at least two other presentations are required. Students should list all presentations attended in their Annual Progress Report.

c) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:

- [LANG615 2nd Lang Learning & Technology](#)
- [LANG625 2nd Lang Learn Cult Understand](#)

- [LANG699 Res Sem in 2nd Lang Learning](#)
- [EDER613 Change&InnovationInEducation](#)
- [EDER667 2nd Language Reading & Writing](#)
- [EDER669 Aspect of Secd Lang & Culture](#)
- [EDER696 Special Topics in Education](#)
- DELE/DELFI/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

d) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

#### **Flexible Grade Option (CG Grade)**

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### **Credit for Undergraduate Courses**

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

#### **Time Limit**

Expected completion time is four years for the Doctor of Philosophy. Maximum completion time is six years.

#### **Supervisory Assignments, Research Proposal and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

A student is assigned an interim supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and Program capacity. Students will normally have a permanent supervisor by the end of the second term of study (usually April) and must finalize supervisory arrangements no later than twelve months after first registration.

Once the student has finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and two other faculty members from the program. One of the two members of this committee may be external to the program. See [Supervision](#) for more information.

## Research Proposal

Students must prepare a thesis proposal as part of candidacy requirements. Details can be found at [slllc.ualgary.ca/graduate/graduate-program-llac](https://slllc.ualgary.ca/graduate/graduate-program-llac).

## Required Examinations

### Candidacy

Doctoral students are required to pass written and oral field of study examinations and an oral examination on the thesis proposal. Specific details of the examination format and other candidacy requirements can be found at [slllc.ualgary.ca/graduate/graduate-program-llac](https://slllc.ualgary.ca/graduate/graduate-program-llac).

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ualgary.ca/awards](https://grad.ualgary.ca/awards).

## Overview

General Program Information

## Contact Information

Website: [arts.ualgary.ca/sociology](https://arts.ualgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ualgary.ca/advising](https://arts.ualgary.ca/advising).

## Introduction

The program in Law and Society is designed to provide a broad exposure to the nature of law and its role in society. The overall aim of the program is not only to provide students with a deep understanding of the law but also to demonstrate that the law is not an isolated discipline but is a part of an integrated culture of which we all partake. The program is not specifically a "pre-law" program. Nevertheless, the perspectives that it offers are likely to be of great benefit to those who hope to be lawyers, as well as to those considering a career in politics, the civil service, law enforcement, the social sciences, business and industry, or public-interest advocacy.

## Sociology and Law and Society Students Association

The Sociology and Law and Society Students Association (SLSA) is actively engaged in promoting the academic and social interests of students who Major or Minor in Sociology or Law and Society. The SLSA fosters a sense of community within the Department and represents the interests of undergraduate Sociology and Law and Society students at appropriate councils and committees. All Sociology and Law and Society students are encouraged to become members.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Sociology) Program or the BA (Law and Society) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

#### Courses Constituting the Field of Law and Society

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of Law and Society while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Law and Society

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

## Major-Field Specified Courses

### Earn at least 24 credits from the following:

- Core Courses: 21 units: Law and Society 201, 203, 335, 337, 413, 415, 591
- Core Courses: 3 units from Political Science 342, Philosophy 425 or Sociology 329

## Major-Field Required Options

- *Courses with a Focus on Law and Society*: 15 units, selected from the list of Courses with a Focus on Law and Society within *Courses Constituting the Field of Law and Society*.
- *Context Courses*: 6 units selected from the list of Context Courses within *Courses Constituting the Field of Law and Society*.
- *Research Methods Requirement*: 3 units from the list of Research Methods Courses within *Courses Constituting the Field of Law and Society*

### Earn at least 24 credits from the following:

- Courses Constituting the Field of Law and Society

### Additional Comments:

A maximum of 6 units of Law and Society 501 may count towards major requirements.

## Degree Options

### Type

### Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/sociology](https://arts.ucalgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The program in Law and Society is designed to provide a broad exposure to the nature of law and its role in society. The overall aim of the program is not only to provide students with a deep understanding of the law but also to demonstrate that the law is not an isolated discipline but is a part of an integrated culture of which we all partake. The program is not specifically a "pre-law"

program. Nevertheless, the perspectives that it offers are likely to be of great benefit to those who hope to be lawyers, as well as to those considering a career in politics, the civil service, law enforcement, the social sciences, business and industry, or public-interest advocacy.

## Sociology and Law and Society Students Association

The Sociology and Law and Society Students Association (SLSA) is actively engaged in promoting the academic and social interests of students who Major or Minor in Sociology or Law and Society. The SLSA fosters a sense of community within the Department and represents the interests of undergraduate Sociology and Law and Society students at appropriate councils and committees. All Sociology and Law and Society students are encouraged to become members.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Sociology) Program or the BA (Law and Society) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must submit a change of program request through their [Student Centre](#) by February 1.

In addition, for admission to the Honours program in Law and Society, the following is also required:

1. Completion of at least 72 units at the time of application.
2. Completion of 3 units from Communication Studies 313, Geography 483, History 300, Law and Society 313, Psychology 300, Psychology 301, or Sociology 313.
3. Consultation with three potential supervisors and submission of the Statement of Intent by January 15. Please see the website for additional details.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

### Courses Constituting the Field of Law and Society

#### Type

Completion Requirement

Students must successfully complete a minimum of 54 units in Courses Constituting the Field of Law and Society while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Law and Society

**Additional Comments:**

### Program Requirements

#### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 30 credits from the following:**

- Core Courses: 21 units: Law and Society 201, 203, 335, 337, 413, 415, 591
- Core Courses: 3 units from Political Science 342, Philosophy 425 or Sociology 329
- Honours Thesis and Seminar: 6 units Law and Society 590

Major-Field - Required Options

- *Courses with a Focus on Law and Society*: 15 units, selected from the list of Courses with a Focus on Law and Society within Courses Constituting the Field of Law and Society.
- *Context Courses*: 6 units selected from the list of Context Courses within Courses Constituting the Field of Law and Society.
- *Research Methods Requirement*: 3 units from the list of Research Methods Courses within Courses Constituting the Field of Law and Society.

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Law and Society

*A maximum of 6 units of Law and Society 501 may count towards major requirements.*

**Additional Comments:**

### Degree Options

#### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

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## Introduction

The BMus (Music Education) exists **only** in combination with the Teacher program. It is designed for students intending to teach music (both instrumental and choral) in the schools at the secondary level. In addition to the core areas of performance, theory, history and musicianship, the program provides course work in conducting, vocal and instrumental techniques and appropriate pedagogy for different age groups.

This five-year program leads to a Bachelor of Education from the Werklund School of Education and a Bachelor of Music in Music Education from the Faculty of Arts. A minimum of 150 units must be successfully completed.

## Admissions

### Program Admissions Information

Students must meet the admissions requirements for both the Bachelor of Music program (below) and the Faculty of Arts as well as the Werklund School of Education (see [A.5 Undergraduate Degree Admission Requirements](#)).

## Admission to BMus Degrees

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Admission requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Admission to BMus Programs is also contingent on an audition and interview where applicants are assessed not only on actual performance, but also on talent, potential, and musicality.

## Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Music Committee. During the audition, applicants will be required to perform repertoire outlined by the audition repertoire suggestions document provided online. Sight-reading and technique may be included as part of the audition.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February /March.

More information about the BMUS Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition).

More information, deadlines and audition forms are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs).

BMus applicants who do not wish to audition in person may submit a video audition. If a recording is submitted, the student may be required to perform a live audition upon arrival. The recording should consist of approximately 10 minutes of music and conform to the requirements for auditions given above. The recording should have been made not more than two months prior to submission, should be of good quality and should be solo or solo with accompaniment. More information and deadlines for the receipt of video or are on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

## Audition Requirements

Applicants should be prepared to perform two pieces (except for piano and voice, who should be prepared to perform three pieces), each from a different style period; singers and instrumentalists must provide their own accompanist. Applicants should be prepared to perform for approximately 10 minutes; in addition, they will be asked to sight-read a short piece of music appropriate to their instrument or voice.

Applicants audition on the instrument of their choice or in voice. Those who would like to audition on two instruments may do so. The jury will determine which instrument (or voice) will become the major when the applicant is admitted to a Music program.

Previously accepted students who have not been enrolled in a performance practicum course for a year or more may be required to re-audition in order to determine if the previous level of attainment has been maintained.

## Guidelines

As an indication of the level for admission to Music, the following guidelines should be noted:

- Pianists and vocalists should be prepared to perform repertoire at the Grade X level.
- All others should be prepared to perform repertoire at the Grade VIII level. Students who have not reached the Grade VIII level, but who have a serious interest in a career in music, are encouraged to apply and to audition at the level of performance they have reached. Suggested audition repertoire guidelines are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

## Bachelor of Music (BMus) - Major of Music Education

Bachelor of Music students take a common first-year program of study and then select their Major Fields of specialization.

Admission to each Major is conditional on:

1. The completion of Music 213, 214, 221, 223, 225, and 230 or 232 with an average of "B-" (2.70) or better in those courses.
2. Grades of "B" (3.00) or better in courses in their area: Composition or Performance.
3. Approval of the Division Lead.

## Music Students: Keyboard Proficiency Tests

Music has a required minimum level of keyboard proficiency, which all Bachelor of Music students must achieve in order to graduate. Applicants who have never played a keyboard instrument, or whose proficiency does not meet the required level, will be advised to take remedial work in keyboard, either through the Music Division or privately.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty Graduation Requirements

For Faculty of Arts Major Degree and Combined Degree requirements, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

For regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations](#).

##### Additional Comments:

## Courses Constituting the Field of Music

### Type

Completion Requirement

Students must successfully complete a minimum of 66 units to a maximum of 81 units in the Field of Music while fulfilling the Program Requirements

**Earn at least 66 credits from the following:**

- Courses Constituting the Field of Music

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Common Core Program for BMus Majors

**Earn at least 39 credits from the following:**

- Common Core Program for BMus Majors

Music Education Requirements

**Earn at least 27 credits from the following:**

- 18 units from Music Education 331, 341, 343, 401, 403, 413, 415, 417, 419, 420
- 3 units from Music Performance 301, 303, 305, 321
- 6 units from Music Performance 301, 303, 305, 311, 313, 315, 321, 325, 327, 329

Other Requirements

**Earn at least 3 credits from the following:**

- 3 units School of Creative and Performing Arts 499

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- a) A completed Bachelor of Music degree (or equivalent).
- b) Normally, two years of successful teaching experience or equivalent professional involvement in music education.
- c) An essay on a topic in Music Education prepared during or subsequent to the applicant's undergraduate work.
- d) One-page letter detailing their specific reasons for pursuing graduate study.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- [MUED671 Selected Topic in School Music](#), and
- 12 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

### Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### **Flexible Grade Option (CG Grade)**

The Music program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### **Time Limit**

Maximum completion time is five years for the Master of Music programs.

#### **Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

### **Supervisory Assignments**

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### **Required Examinations**

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

### **Thesis Examinations**

In addition to Faculty of Graduate Studies requirements for **Thesis Examinations**, the program requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

*Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

#### **Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar and the program's website.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) One or two extended research essays.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- An interdisciplinary course (3 units) designed by the student and supervisor, and
- 15 units of additional approved graduate-level courses.

#### Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is six years for the doctoral program.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

General Program Information

Contact Information and Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Program Combinations

The BA in Multidisciplinary Studies is not available with Honours.

The BA can be combined with another Bachelor's degree provided that the courses used towards the primary and secondary areas of focus are not used towards the major field requirements of the other degree program.

The BA can be completed as a subsequent (second) Bachelor's degree provided that the primary and secondary areas of focus are different from the credentials (major and minor) obtained in the previous degree.

## Admissions

### Program Admissions Information

Prospective students wishing to enter a Multidisciplinary Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### 1. Primary Focus

Student must successfully complete a minimum of 51 units while fulfilling the following requirements:

**Earn at least 30 credits from the following:**

- Primary Focus

Note: No more than 36 units may be taken from the field of study of the minor program.

#### 2. Secondary Focus

**Earn at least 18 credits from the following:**

- Secondary Focus

Note: Courses used to fulfil this requirement cannot be used to fulfil requirement 1, i.e. courses cannot be double counted toward both the primary and secondary areas of focus.

### 3. Advanced Study

Earn at least 12 credits from the following:

- Advanced Study

### 4. Capstone Course: 3 units Arts 503.

Earn at least 3 credits from the following:

- Capstone Course

Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Minor Programs

Additional Comments:

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Music offers a four-year Bachelor of Music (BMus) Degree that is designed for students wishing to enter a professional career in music, as performers, teachers, composers, sound designers, theorists, historians or musicologists. The BMus degree provides the opportunity for students to Major in Performance, Composition or Integrated Studies. In addition there is a major in Music Education that is available in the context of a five-year concurrent BMus/Bachelor of Education degree for students wishing to pursue the Secondary Route. Students wishing to pursue the Elementary Route should complete a BA Music/Bachelor of Education degree. All BMus programs have a common first year.

## Admissions

Program Admissions Information

## Admission to BMus Degrees

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

Admission requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Admission to BMus Programs is also contingent on an audition and interview where applicants are assessed not only on actual performance, but also on talent, potential, and musicality.

### Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Music Committee. During the audition, applicants will be required to perform repertoire outlined by the audition repertoire suggestions document provided online. Sight-reading and technique may be included as part of the audition.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February /March.

More information about the BMUS Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition).

More information, deadlines and audition forms are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs).

BMus applicants who do not wish to audition in person may submit a video audition. If a recording is submitted, the student may be required to perform a live audition upon arrival. The recording should consist of approximately 10 minutes of music and conform to the requirements for auditions given above. The recording should have been made not more than two months prior to submission, should be of good quality and should be solo or solo with accompaniment. More information and deadlines for the receipt of video or are on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### Audition Requirements

Applicants should be prepared to perform two pieces (except for piano and voice, who should be prepared to perform three pieces), each from a different style period; singers and instrumentalists must provide their own accompanist. Applicants should be prepared to perform for approximately 10 minutes; in addition, they will be asked to sight-read a short piece of music appropriate to their instrument or voice.

Applicants audition on the instrument of their choice or in voice. Those who would like to audition on two instruments may do so. The jury will determine which instrument (or voice) will become the major when the applicant is admitted to a Music program.

Previously accepted students who have not been enrolled in a performance practicum course for a year or more may be required to re-audition in order to determine if the previous level of attainment has been maintained.

### Guidelines

As an indication of the level for admission to Music, the following guidelines should be noted:

- Pianists and vocalists should be prepared to perform repertoire at the Grade X level.
- All others should be prepared to perform repertoire at the Grade VIII level. Students who have not reached the Grade VIII level, but who have a serious interest in a career in music, are encouraged to apply and to audition at the level of performance they have reached. Suggested audition repertoire guidelines are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

## Bachelor of Music (BMus) - Major of Composition

Bachelor of Music students take a common first-year program of study and then select one of the following Major Fields of specialization:

- Composition **Music**
- Integrated Studies **BMus in In**

- Performance Music

Admission to each Major is conditional on:

1. The completion of Music 213, 214, 221, 223, 225, and 230 or 232 with an average of "B-" (2.70) or better in those courses.
2. Grades of "B" (3.00) or better in courses in their area of Composition.
3. Approval of the Division Lead.

## Music Students: Keyboard Proficiency Tests

Music has a required minimum level of keyboard proficiency, which all Bachelor of Music students must achieve in order to graduate. Applicants who have never played a keyboard instrument, or whose proficiency does not meet the required level, will be advised to take remedial work in keyboard, either through the Music Division or privately.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

#### Courses Constituting the Field of Music

##### Type

Completion Requirement

The BMus in Composition requires the successful completion of a minimum of 81 units to a maximum of 96 units in the Courses Constituting the Field of Music while fulfilling the Program Requirements.

**Complete ALL of the following Requirement Sets:**

- Courses Constituting the Field of Music

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Common Core Program for BMus Majors

**Earn at least 39 credits from the following:**

- Common Core Program for BMus Majors

Composition Requirements

Earn at least 39 credits from the following:

- 6 units Music 341, 343
- 15 units Music 441, 443, 445, 447, 451
- 6 units Music 560
- 3 units from Music Performance 301, 303, 305, 311, 313, 315, 321, 325, 327 or 329\*
- 9 units from Music 351, 355, 415, 417, 453, 511, 513, 551, 552

*\*Ensemble limit: No more than 24 units of courses labelled Music Performance can be counted toward degree requirements.*

Music History and Literature Options

- 3 units of Music History and Literature at the 300 level or above.

Earn at least 3 credits from the following:

- Courses Constituting the Field of Music

Other Requirements

Earn at least 3 credits from the following:

- 3 units School of Creative and Performing Arts 499

Additional Comments:

Concentration in Sonic Arts for Music Majors

Type

Completion Requirement

Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

Complete ANY of the following Requirement Sets:

- Concentration in Sonic Arts

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

Additional Comments:

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

### Admission to the BA in Music

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

While not required for admission completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam is required for registration in certain required music courses. Applicants are strongly encouraged to complete this requirement prior to beginning the BA Music program.

## Program Details

Simple Requisites

### Faculty Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

### Courses Constituting the Field of Music

#### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Music while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Music

Additional Comments:

#### Program Requirements

Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 27 credits from the following:**

- Foundation Courses: 15 units Music 213, 214, 230 or 232, 330, 332
- Foundation Courses: 3 units at the 300 level in Composition, Sonic Arts or Theory
- Music Performance and Musicianship: 9 units from Music 225, 325, and courses labelled Music Performance.

Major-Field - Required Options

**An additional 21 units from Courses Constituting the Field of Music including:**

- *Upper-Level Courses:* 6 units in Music History and Literature, Composition, Sonic Arts or Theory at the 400 or 500 level
- *Upper-Level Courses:* 15 units at the 300 level or above

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of Music

Other Requirements

**Earn at least 3 credits from the following:**

- 3 units School of Creative and Performing Arts 499

Additional Comments:

#### Concentration in Sonic Arts for Music Majors

Type

Completion Requirement

Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

**Complete ANY of the following Requirement Sets:**

- Concentration in Sonic Arts

Additional Comments:

#### Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Honours Degrees

Additional Comments:

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

### Admission to the BA in Music

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

While not required for admission completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam is required for registration in certain required music courses. Applicants are strongly encouraged to complete this requirement prior to beginning the BA Music program.

### Admission to the BA Honours Music

Students wishing to be considered for admission into the BA Honours (Music) Program must have completed at least 30 units in the BA (Music) Program and must meet the criteria established by the Faculty of Arts in section [3.3.2 Honours Degrees](#). Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

Simple Requisites

### Faculty Requirement

#### Type

Completion Requirement

#### Faculty Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

## Courses Constituting the Field of Music

**Type**

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Music while fulfilling the Program Requirements

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Music

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 33 credits from the following:**

- Foundation Courses: 15 units Music 213, 214, 230 or 232, 330, 332
- Foundation Courses: 3 units at the 300 level in Composition, Sonic Arts or Theory
- Music Performance and Musicianship: 9 units from Music 225, 325, and courses labelled Music Performance.
- Honours Project: 6 units Music 560

Major-Field - Required Options

## An additional 27 units from Courses Constituting the Field of Music including:

- *Upper-Level Courses:* 6 units in Music History and Literature, Composition, Sonic Arts or Theory at the 400 or 500 level
- *Upper-Level Courses:* 21 units at the 300 level or above

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of Music

Other Requirements

**Earn at least 3 credits from the following:**

- 3 units School of Creative and Performing Arts 499

**Additional Comments:**

## Concentration in Sonic Arts for Music Majors

**Type**

Completion Requirement

## Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

### Complete ANY of the following Requirement Sets:

- Concentration in Sonic Arts

Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Arts and Science Honours Academy

Additional Comments:

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires that all applicants submit:

- a) A completed Bachelor of Music degree (or equivalent).
- b) A research essay or paper of approximately 10-15 pages on a topic in music history or theory prepared during or subsequent to the applicant's undergraduate course work.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

Program Description

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

#### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- 3-unit graduate course in Music Theory, Composition, Sonic Arts or Music History and Literature
- 12 units of graduate Music courses, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

### Language

Applicants are required to demonstrate a reading knowledge of a language other than English—normally German. In practice, this requirement and any other linguistic competence that may be deemed necessary for the student's proposed research area must be met before the thesis topic will be approved.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is four years for the Master of Arts (Musicology).

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

#### Supervisory Assignments

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

In addition to Faculty of Graduate Studies requirements, the program requires:

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts requirements, the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) One or two extended research essays of approximately 25 pages in length.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- An interdisciplinary course (3 units) designed by the student and supervisor, and
- 15 units of additional approved graduate-level courses.

## Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is six years for the doctoral program.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Major is designed for students looking to build strong musical skills in a comprehensive music degree. The flexibility of years three and four allows students to gain a broad musical knowledge (for example, equal parts Music History, Music Performance and Music Theory and Composition) or to fuse two or more areas of musical study in a way that they are unable to in the other majors (for example performance and composition, music and technology, performance and early music studies). Admission to this major will depend on a statement of interest submitted to the Division Lead of Music at the end of the first year of studies.

This Major is for students with talent in performance who plan to become professional instrumentalists or singers. Admission as a Major in Performance will depend on an audition before a faculty jury at the end of the first or second year. In order to continue in Performance, students must earn an average grade of "B-" or better in courses in their area of specialization in each academic year. Students who do not achieve this average will be required to choose a different field of specialization.

## Admissions

### Program Admissions Information

## Admission to BMus Degrees

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. The application deadline is March 1.

Admission requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Admission to BMus Programs is also contingent on an audition and interview where applicants are assessed not only on actual performance, but also on talent, potential, and musicality.

### Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Music Committee. During the audition, applicants will be required to perform repertoire outlined by the audition repertoire suggestions document provided online. Sight-reading and technique may be included as part of the audition.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February /March.

More information about the BMUS Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition).

More information, deadlines and audition forms are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs).

BMus applicants who do not wish to audition in person may submit a video audition. If a recording is submitted, the student may be required to perform a live audition upon arrival. The recording should consist of approximately 10 minutes of music and conform to the requirements for auditions given above. The recording should have been made not more than two months prior to submission, should be of good quality and should be solo or solo with accompaniment. More information and deadlines for the receipt of video or are on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### Audition Requirements

Applicants should be prepared to perform two pieces (except for piano and voice, who should be prepared to perform three pieces), each from a different style period; singers and instrumentalists must provide their own accompanist. Applicants should be prepared to perform for approximately 10 minutes; in addition, they will be asked to sight-read a short piece of music appropriate to their instrument or voice.

Applicants audition on the instrument of their choice or in voice. Those who would like to audition on two instruments may do so. The jury will determine which instrument (or voice) will become the major when the applicant is admitted to a Music program.

Previously accepted students who have not been enrolled in a performance practicum course for a year or more may be required to re-audition in order to determine if the previous level of attainment has been maintained.

### Guidelines

As an indication of the level for admission to Music, the following guidelines should be noted:

- Pianists and vocalists should be prepared to perform repertoire at the Grade X level.
- All others should be prepared to perform repertoire at the Grade VIII level. Students who have not reached the Grade VIII level, but who have a serious interest in a career in music, are encouraged to apply and to audition at the level of performance they have reached. Suggested audition repertoire guidelines are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

## Bachelor of Music (BMus) - Major of Performance

Bachelor of Music students take a common first-year program of study and then select one of the following Major Fields of specialization:

- Composition [Music](#)
- Integrated Studies [BMus in In](#)

- Performance Music

Admission to each Major is conditional on:

1. The completion of Music 213, 214, 221, 223, 225, and 230 or 232 with an average of "B-" (2.70) or better in those courses.
2. Grades of "B" (3.00) or better in courses in their area of Performance.
3. Approval of the Division Lead.

Admission as a Major in Performance will depend on an audition before a faculty jury at the end of the first or second year. In order to continue in Performance, students must earn an average grade of "B-" or better in courses in that area of specialization in each academic year. Student who do not achieve this average will be required to choose a different field of specialization.

## Music Students: Keyboard Proficiency Tests

Music has a required minimum level of keyboard proficiency, which all Bachelor of Music students must achieve in order to graduate. Applicants who have never played a keyboard instrument, or whose proficiency does not meet the required level, will be advised to take remedial work in keyboard, either through the Music Division or privately.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Music

##### Type

Completion Requirement

The BMus in Performance requires the successful completion of a minimum of 81 units to a maximum of 96 units in Courses Constituting the Field of Music while fulfilling the Program Requirements.

##### Earn at least 81 credits from the following:

- Courses Constituting the Field of Music

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

Common Core Program for BMus Majors

##### Earn at least 39 credits from the following:

- Common Core Program for BMus Majors

#### Music Performance Requirements

**Earn at least 36 credits from the following:**

- 9 units Music 427, 462
- 9 units Music 527, 562
- 9 units from Music Performance\* 321, 323, 325, 327, 329, 341, 345
- 9 units from Music Performance\* 301, 303, 305, 311, 313, 315

#### Music Options

6 units of Music History and Literature, Composition, Sonic Arts or Theory at the 300 level or above

**Earn at least 6 credits from the following:**

- Courses Constituting the Field of Music

#### Other Requirements

**Complete ALL of the following Course Sets:**

- 3 units School of Creative and Performing Arts 499
- Voice Major Language Requirement: Voice Majors are required to complete 6 units in a single language other than English.

**Additional Comments:**

#### Concentration in Sonic Arts for Music Majors

##### Type

Completion Requirement

#### Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

**Complete ANY of the following Requirement Sets:**

- Concentration in Sonic Arts

**Additional Comments:**

#### Degree Options

##### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

**Additional Comments:**

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- A completed Bachelor of Music degree (or equivalent).
- A live audition or video/audio recording. Repertoire for the audition must contain representative works from a variety of historical periods and must demonstrate an advanced level of technical accomplishment. Recordings should be approximately 20-30 minutes in length. Live auditions are scheduled for early February. Specific dates and times can be arranged by contacting the Graduate Program Administrator at 403.220.5422 or email <mailto:artsgradsc@ucalgary.ca>.
- One-page letter detailing their specific reasons for pursuing graduate study.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI621 Adv Performance Practicum I](#), [MUSI623 Adv Performance Practicum II](#) and [MUSI631 Res Tech & Biblio of Music](#)
- 6 units of graduate courses in Music Theory and Composition, Sonic Arts or Music History and Literature
- 3-unit graduate Music course, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

Graduate students in the MMus Performance program are required to participate in one of the large ensembles for the duration of their degree and pianists are required to volunteer as accompanists. In lieu of the large ensemble requirement, pianists have the option to accompany two hours per week in a vocal or instrumental studio. Another option for pianists is to accompany a Junior or a Senior recital. The head of the performance area will make all ensemble or accompanying assignments. Students in graduate programs other than performance are not required to participate in an ensemble, although such participation is encouraged.

All master's degree programs require a thesis or recital or project equivalent (see below), prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be two public recitals featuring solo performances and chamber music. At least one Canadian work should be included in one of the recitals. The examining committee will evaluate the candidate's performance in both of the recitals. Recital proposals are to be submitted to the Graduate Program Administrator for approval by the Graduate Committee at least two months before each performance.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is five years for the Master of Music programs.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

A comprehensive oral examination based upon the literature of the instrument and more extensively upon the repertoire of the approved recital programs is required. This examination must be satisfactorily completed at least six weeks before the date of the second public performance required for the degree.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/philosophy](https://arts.ucalgary.ca/philosophy)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

In philosophy we ask fundamental questions about ourselves and the world, as well as practical questions about how to live a good life and how to construct a just society. As an academic discipline, philosophy is subdivided into areas such as ethics and political philosophy, aesthetics, epistemology (the theory of knowledge), metaphysics (the theory of reality or being), logic and the philosophy of logic, philosophy of language, philosophy of mind, philosophy of science, philosophy of religion, and the history of philosophy. Philosophy graduates pursue careers in business, law, the arts, and politics.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Philosophy or Gender and Sexuality Studies) Program must meet the criteria listed in section [A.A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

#### Courses Constituting the Field of Philosophy

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Philosophy while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Philosophy

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 9 credits from the following:

- Logic: 3 units Philosophy 279 or 377
- Core Courses: 6 units Philosophy 395, 397

#### Major-Field - Required Options

- *Upper-Level Courses:* An additional 24 units from Courses Constituting the Field of Philosophy at the 400 level or above.
- *Philosophy Options:* An additional 15 units from Courses Constituting the Field of Philosophy.

##### Earn at least 39 credits from the following:

- Courses Constituting the Field of Philosophy

#### Language Requirement

6 units in a single language other than English

**Earn at least 6 credits**

**Additional Comments:**

**Concentrations**

**Type**

Completion Requirement

**Concentrations**

Students completing a BA or BA Honours in Philosophy can elect to complete a concentration in Law and Philosophy or Philosophy and Religion.

**Fulfill ANY of the following requirements:**

**Law and Philosophy**

Students must complete 18 units selected from:

**Earn at least 18 credits from the following:**

- Philosophy 264, 313, 314, 325, 361, 425, 453, 525

Other senior-level Philosophy courses may be accepted when the topic is appropriate and with approval from the Department of Philosophy.

**OR**

**Philosophy and Religion**

Students must complete 18 units selected from:

**Earn at least 18 credits from the following:**

- Philosophy 201, 331, 335, 527
- Religious Studies 363, 444, 463

Other senior-level Philosophy or Religious Studies courses may be accepted when the topic is appropriate and with approval from the Department of Philosophy.

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

**Degree Options**

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs

**Overlapping Programs**

The Minor in History and Philosophy of Science cannot be taken in conjunction with programs in Philosophy.

The Concentration in Philosophy and Religion cannot be taken in conjunction with a combined degree or double BA or BA Honours program in Philosophy and Religious Studies or a Major/Minor combination.

For other regulations related to the Faculty of Arts, see: [\*\*3. Faculty of Arts Regulations.\*\*](#)

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/philosophy](https://arts.ucalgary.ca/philosophy)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

In philosophy we ask fundamental questions about ourselves and the world, as well as practical questions about how to live a good life and how to construct a just society. As an academic discipline, philosophy is subdivided into areas such as ethics and political philosophy, aesthetics, epistemology (the theory of knowledge), metaphysics (the theory of reality or being), logic and the philosophy of logic, philosophy of language, philosophy of mind, philosophy of science, philosophy of religion, and the history of philosophy. Philosophy graduates pursue careers in business, law, the arts, and politics.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Philosophy or Gender and Sexuality Studies) Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar. Annual application deadlines are found in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework.

Students wishing to apply to a Philosophy Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees

- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

**Additional Comments:**

## Courses Constituting the Field of Philosophy

**Type**

**Completion Requirement**

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Philosophy while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Philosophy

**Additional Comments:**

## Program Requirements

**Type**

**Completion Requirement**

Major-Field - Specified Courses

**Earn at least 18 credits from the following:**

- Logic: 3 units Philosophy 279 or 377
- Core Courses: 6 units Philosophy 395, 397
- Honours Seminar: 3 units Philosophy 597
- Honours Thesis: 6 units Philosophy 590

A grade of "B-" or higher in Philosophy 590 is required for graduation with the BA Honours degree.

Major-Field - Required Options

**Earn at least 42 credits from the following:**

- Courses Constituting the Field of Philosophy
- Upper-Level Courses: An additional 27 units from Courses Constituting the Field of Philosophy at the 400 level or above, 3 units of which must be at the 500 level.
- Philosophy Options: An additional 15 units from Courses Constituting the Field of Philosophy.

Language Requirement

6 units in a single language other than English.

**Additional Comments:**

## Concentrations

**Type**

**Completion Requirement**

Concentrations

Students completing a BA or BA Honours in Philosophy can elect to complete a concentration in Law and Philosophy or Philosophy and Religion.

**Fulfill ANY of the following requirements:**

## Law and Philosophy

Students must complete 18 units selected from:

**Earn at least 18 credits from the following:**

- Philosophy 264, 313, 314, 325, 361, 425, 453, 525

Other senior-level Philosophy courses may be accepted when the topic is appropriate and with approval from the Department of Philosophy.

OR

## Philosophy and Religion

Students must complete 18 units selected from:

**Earn at least 18 credits from the following:**

- Philosophy 201, 331, 335, 527
- Religious Studies 363, 444, 463

Other senior-level Philosophy or Religious Studies courses may be accepted when the topic is appropriate and with approval from the Department of Philosophy.

**Additional Comments:**

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

#### Overlapping Programs

The Minor in History and Philosophy of Science cannot be taken in conjunction with programs in Philosophy.

The Concentration in Philosophy and Religion cannot be taken in conjunction with a combined degree or double BA or BA Honours program in Philosophy and Religious Studies or a Major/Minor combination.

**Additional Comments:**

## Overview

### General Program Information

The course-based Master of Arts degree may be completed on a full-time or a part-time basis.

### Specializations:\*

- History and Philosophy of Science

- Philosophy of Religion

\*These two specializations are offered in co-operation with the Departments of History and Classics and Religion respectively. Selecting a specialization is not mandatory.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](http://DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary (ucalgary.ca))

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-course](http://grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-course)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

A minimum of 30 units, including at least 6 units in the History of Philosophy and 6 units in 20th Century or Contemporary Philosophy.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The Department does not normally give [advanced credit](#) for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level

required for admission. Normally, advanced credit may be given for a maximum of 9 units.

### Flexible Grade Option (CG Grade)

The Department of Philosophy will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

### Time Limit

Expected completion time for full-time students in a master's course-based program is two years. Maximum completion time is six years.

#### Supervisory Assignments

##### Type

Completion Requirement

##### Additional Comments:

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A supervisory committee at the master's level is not normally appointed. When such a committee is deemed necessary, the Dean's approval must be obtained.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Course-based MA students normally do not receive department funding.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

#### Specializations:\*

- History and Philosophy of Science
- Philosophy of Religion

\*These two specializations are offered in co-operation with the Departments of History and Classics and Religion respectively. Selecting a specialization is not mandatory.

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Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](http://DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary (ucalgary.ca))

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-thesis](http://grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-thesis).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Department requires:

- Students must complete a minimum of 21 units of coursework, including [PHIL603 Graduate Proseminar](#) (normally taken in the first year in program) and Philosophy 699 (normally taken in the second year). Incoming students determine coursework in consultation with the Graduate Program Director.
- In the specializations History and Philosophy of Science and Philosophy of Religion, courses taken in History or Religious Studies, respectively, may, with departmental approval, count as fulfilling course requirements for the degree.
- Students in the specialization in History and Philosophy of Science must show competence in logic. This requirement may be met by:
  - successfully completing [PHIL677 Metalogic](#) or [PHIL679 Topics in Logic](#) as part of the program course requirements; or
  - serving as a Graduate Assistant (Teaching) for [PHIL279 Logic I](#); or
  - completing [PHIL279 Logic I](#) or [PHIL377 Elementary Formal Logic](#) (with a grade of B or better) in addition to the program course requirements\*.

*\*Students who have completed Philosophy 279 or 377 (or its equivalent at another university) may request an exemption from the logic requirement from the Graduate Program Director.*

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The Department does not normally give advanced credit for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level required for admission. Normally, advanced credit may be given for a maximum of 9 units.

### Flexible Grade Option (CG Grade)

The Department of Philosophy will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

### Time Limit

Expected completion time for full-time students in a master's thesis-based program is two years. Maximum completion time is four years.

### Supervisory Assignments and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

### Supervisory Assignments

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A supervisory committee at the master's level is not normally appointed. When such a committee is deemed necessary, the Dean's approval must be obtained.

### Thesis Examinations

In addition to the Faculty of Graduate studies thesis requirements, the program requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

*Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Thesis-based MA students are guaranteed funding for the first two years of their program.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

Satisfactory academic progress in the student's program is required for funding

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-phd](http://grad.ucalgary.ca/future-students/explore-programs/philosophy-phd)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- Students must normally complete a minimum of 18 units for students with a Master of Arts degree, or a minimum of 36 units for students entering directly from an honours undergraduate program, including [PHIL603 Graduate Proseminar](#) (normally taken in the first year in program).
- All students must show competence in logic. This requirement may be met by:
  - successfully completing [PHIL677 Metalogic](#) or [PHIL679 Topics in Logic](#) as part of the program course requirements; or

- serving as a Graduate Assistant (Teaching) for **PHIL279 Logic I**; or
- completing **PHIL279 Logic I** or **PHIL377 Elementary Formal Logic** (with a grade of B or better) in addition to the program course requirements\*.

*\*Students who have completed Philosophy 279 or 377 (or its equivalent at another university) may request an exemption from the logic requirement from the Graduate Program Director.*

c) In addition to a) and b), students must complete **PHIL700 Doctoral Research Prof Development** after course and candidacy requirements are completed. Philosophy 700 is normally taken in the year after advancing to candidacy.

Note: Normally, in both master's and doctoral programs, no more than 3 units of Directed Reading can be taken to satisfy the minimum course requirement.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The Department does not normally give advanced credit for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level required for admission. Normally, advanced credit may be given for a maximum of 9 units.

### Flexible Grade Option (CG Grade)

The Department of Philosophy will allow students to pursue the **Flexible Grade Option (CG Grade)**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

### Time Limit

Expected completion time for full-time students is four years in a doctoral program. Maximum completion time is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A doctoral student shall be under the general supervision of a supervisory committee. After consultation with the student, the supervisor will submit a list of possible members of the supervisory committee to the Graduate Studies Committee for approval. The supervisory committee should be established as soon as possible and no later than three months after the supervisor's appointment.

## Candidacy

In addition to Faculty of Graduate Studies [candidacy](#) requirements, the program requires:

Doctoral students must complete two field of study papers, a field of study oral examination, a written thesis proposal and an oral examination on the thesis proposal. For complete details of the candidacy requirements, see the [Philosophy Doctoral Candidacy Requirements](#).

## Thesis Examinations

In addition to the Faculty of Graduate studies [thesis requirements](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

PhD students are guaranteed funding for the first four years of their program.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

Satisfactory academic progress in the student's program is required for funding.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Political Science offers courses in the principal fields of the discipline: Canadian government, political theory, comparative politics, and international relations. The BA (Political Science) program is designed to expose students to each of these fields, as well as to encourage an appreciation of the broader themes and issues that cut across them (see [Courses Constituting the Field of Political Science](#) for list of categories).

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Political Science) Program, the BA (International Relations) Program or the BA (International Indigenous Studies) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

##### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Political Science

##### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Political Science while fulfilling the Program Requirements.

##### Earn at least 45 credits from the following:

- Courses Constituting the Field of Political Science

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

##### Major-Field - Specified Courses

##### Earn at least 12 credits from the following:

- Introduction: 6 units in Political Science at the 200 level
- Canadian Politics: 3 units Political Science 321
- Research Methods: 3 units Political Science 397

##### Major-Field - Required Options

33 units from Courses Constituting the Field of Political Science, which must include any three of the following:  
a. 6 units Political Science 326 and 328.

- b. 3 units Political Science 359 and an additional 3 units in “*Comparative Politics*” at the 300 level or above.
- c. 3 units Political Science 381 and an additional 3 units in “*International Relations*” at the 300 level or above.
- d. 3 units Political Science 398 or 399.

Earn at least 33 credits from the following:

- Courses Constituting the Field of Political Science
- **Advanced-Level Political Science** - Inclusive of the courses used to fulfill this requirement, at least 12 units must be at the 400 level or above, including at least 3 units at the 500 level.

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Honours Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Political Science offers courses in the principal fields of the discipline: Canadian government, political theory, comparative politics, and international relations. The BA (Political Science) program is designed to expose students to each of these fields, as well as to encourage an appreciation of the broader themes and issues that cut across them (see **Courses Constituting the Field of Political Science** for list of categories).

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Political Science) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Admission to Honours

The Faculty of Arts procedures for Admission to BA Political Science (Honours) established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to be considered for admission into BA Political Science (Honours) program must have completed at least 30 units. The GPA for admission and continuation is typically higher than the 3.30 minimum set by the Faculty. Please see Department website for current admission and continuation GPA for Honours. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Political Science

##### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Political Science while fulfilling the Program Requirements.

##### Earn at least 60 credits from the following:

- Courses Constituting the Field of Political Science

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 6 credits from the following:

- Introduction: 6 units in Political Science at the 200 level

- Canadian Politics: 3 units Political Science 321
- Research Methods: 9 units Political Science 397, 398 and 399
- Honours Seminar and Thesis: 6 units Political Science 590 and 591

A grade of "B+" or higher in both Political Science 590 and 591 is required for graduation with the BA Honours degree.

## Major-Field - Required Options

36 units from Courses Constituting the Field of Political Science, including:

- a. 6 units Political Science 326 and 328.
- b. 3 units Political Science 359 and an additional 3 units in "Comparative Politics" at the 300 level or above.
- c. 3 units Political Science 381 and an additional 3 units in "International Relations" at the 300 level or above.

## Earn at least 36 credits from the following:

- Courses Constituting the Field of Political Science
- **Advanced-Level Political Science** - Inclusive of the courses used to fulfill the (a)-(c) above, at least 9 units must be at the 400 level or above, including at least 9 units at the 500 level.

## Language

Complete 6 units in a Language other than English.

## Additional Comments:

## Degree Options

### Type

Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

## Complete ANY of the following Requirement Sets:

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

## Additional Comments:

## Overview

### General Program Information

The MA, course-based is a continuous program with no scheduled break. The MA programs are offered as full-time programs only.

Both course-based and thesis-based MA programs include significant independent research, are SSHRC-eligible, and are appropriate for students who intend to pursue doctoral studies.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/political-science-ma-course>.

In addition to the Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) A minimum grade point average of 3.40 on a four-point scale over the last 60 units taken in the applicant's undergraduate program.
- b) Normally a four-year BA in Political Science or a strong background in Political Science of at least 30 units in Political Science courses. Special consideration may be given to those who have not achieved this background.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- d) Two reference letters.
- e) A statement of research interests.
- f) Sample of written work, preferably a paper submitted for a Political Science course.
- g) For applicants to the thesis-based Master of Arts, email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department normally requires:

A minimum of 24 units of coursework, which must include the following:

- at least 18 units of graduate courses in Political Science;
- at least 6 units and no more than 9 units must be in the student's Primary Field (one of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
- a maximum of 6 units as reading courses;
- **POLI697 Major Research Paper** (Major research paper of maximum 9,000 words, exclusive of notes and bibliography);
- **POLI691 Quantitative Analysis In Poli** (see Advanced Credit).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

### Flexible Grade Option (CG Grade)

The department of Political Science will not permit the Flexible Grade Option (CG Grade) for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Applicants with knowledge of research methods equivalent to POLI399 Quantitative Research Methods may be given a course exemption in POLI691 Quantitative Analysis In Poli. Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

### Time Limit

Expected completion time is one year for the course-based MA program. Maximum completion time is six years.

#### Supervisory Assignments

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

A Supervisor should normally be appointed by January 15th of the first year of registration.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

The MA program is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/political-science-ma-thesis](http://grad.ucalgary.ca/future-students/explore-programs/political-science-ma-thesis).

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A minimum grade point average of 3.40 on a four-point scale over the last 60 units taken in the applicant's undergraduate program.
- b) Normally a four-year BA in Political Science or a strong background in Political Science of at least 30 units in Political Science courses. Special consideration may be given to those who have not achieved this background.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) Two reference letters.
- e) A statement of research interests.
- f) Sample of written work, preferably a paper submitted for a Political Science course.
- g) For applicants to the thesis-based Master of Arts, email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Department normally requires the following:

- a) A minimum of 15 units of coursework, which must include the following:
  - at least 9 units of graduate courses in Political Science;
  - at least 6 units and no more than 9 units must be in the student's Primary Field (one of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
  - a maximum of 6 units as reading courses;
  - [POLI691 Quantitative Analysis In Poli](#) (see Advanced Credit);
  - and up to 3 units of graduate courses in any area;
- b) A written thesis (maximum 30,000 words).
- c) Thesis Oral Examination.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

## Flexible Grade Option (CG Grade)

The department of Political Science will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Course

Applicants with knowledge of research methods equivalent to **POLI399 Quantitative Research Methods** may be given a course exemption in **POLI691 Quantitative Analysis In Poli.** Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

## Time Limit

Expected completion time is two years for the thesis-based MA program. Maximum completion time is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An incoming student for the thesis-based program must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee (if applicable) must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

The PhD program is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/political-science-phd](http://grad.ucalgary.ca/future-students/explore-programs/political-science-phd).

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- a) A minimum grade point average of 3.70 on a four-point scale over a Master's degree.
- b) Normally a Master of Arts in Political Science or a strong background in Political Science. Special consideration may be given to those who have not achieved this background.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) Two reference letters.
- e) A statement of research interests.
- f) Sample of written work, preferably a paper submitted for a Political Science course.
- g) Email confirmation from a potential supervisor who is interested in supervising the student's work.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department normally requires:

- a) A minimum of 18 units of coursework, which must include:
  - at least 12 units of graduate courses in Political Science;
  - at least 6 units must be in the student's chosen Primary Field and at least 6 units must be in the student's chosen Secondary Field (Primary and Secondary Fields will consist of any two of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
  - a maximum of 6 units as reading courses;
  - [POLI691 Quantitative Analysis In Poli](#) (see Advanced Credit);
  - and up to 3 units of graduate courses in any area.
- b) Field of Study Written Examinations.
- c) Field of Study Oral Examination.
- d) Thesis Proposal and Meeting.

e) Language Requirement (if applicable).

f) Written Thesis.

g) Thesis Oral Examination.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

## Flexible Grade Option (CG Grade)

The department of Political Science will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Applicants with knowledge of research methods equivalent to **POLI399 Quantitative Research Methods** may be given a course exemption in **POLI691 Quantitative Analysis In Poli**. Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

## Time Limit

Expected completion time is four years for the PhD program. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An incoming student must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

The Supervisory Committee should be appointed as quickly as possible but no later than three months after the appointment of the Permanent Supervisor.

## Research Proposal

Doctoral students must complete a written Thesis Proposal, which is approved by their Supervisory Committee in a Thesis Proposal Meeting. For more information, see [poli.ucalgary.ca/graduate/current-program-rules-policies](https://poli.ucalgary.ca/graduate/current-program-rules-policies).

## Doctoral Field of Study Examinations

Political Science doctoral students must successfully complete two Field of Study (FoS) written examinations: (i) one written FoS examination in their chosen Primary Field; and, (ii) a second written FoS examination in their chosen Secondary Field. In addition, students must successfully complete a single oral FoS examination which treats both their Primary and Secondary Fields. For more information, see: <https://arts.ucalgary.ca/political-science/current-students/graduate/phd-program-requirements/phd-candidacy>.

## Thesis Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee (if applicable) must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Psychology is both a science and a profession. As scientists, psychologists work in a variety of settings like universities, hospitals, government, and corporations and carry out both basic and applied research. As a profession, psychology includes a number of different types of practitioners who apply psychological knowledge to solve personal, social, and practical problems. These include clinical psychologists who specialize in the identification and treatment of psychological disorders but also provide psychological assessments, health-related services, and psychological interventions. Practitioners also include industrial/organizational psychologists who work in recruitment, selection, training, and other business practice areas. Career options depend on students' goals and interests and the level and type of training acquired. With a BA or BSc, students may find employment in a variety of settings and a range of occupations such as human resources manager, addictions counsellor, researcher, consultant, case worker, etc. A degree in psychology can also be the first step in the pursuit of a variety of careers in fields that require an undergraduate degree such as law, medicine, management, social work, speech pathology, and audiology. Students wishing to work as a clinical or counselling psychologist will require additional university training in Psychology beyond

the BA or BSc degree. Students wishing to take a Psychology degree that emphasizes the social sciences and humanities should register for the BA degree; those who wish to emphasize the biological and natural sciences should register for the BSc degree. Students who are interested in pursuing graduate study in Psychology should consider the Psychology BA or BSc Honours Program.

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Psychology

##### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Psychology while fulfilling the Program Requirements:

#### Earn at least 45 credits from the following:

- Courses Constituting the Field of Psychology

#### Additional Comments:

#### Program Requirements

##### Type

## Completion Requirement

### Major-Field - Specified Courses

Earn at least 30 credits from the following:

- Introduction: 6 units Psychology 200, 201
- Research Methods and Statistics: 6 units Psychology 300, 301
- Foundation Courses: 6 units Psychology 345, 375
- Foundation Courses: 9 units from Psychology 321, 349\*, 352\*, 365, 369, 373, 383, 385
- Applying Research Methods: 3 units from Psychology 400\*, 415, 425, 427, 430, 435, 478, 504, 505

*\*A maximum of 3 units from Psychology 349 or 352 may be used to fulfill this requirement.*

*\*Students may count a maximum of 3 units from Psychology 400 toward their degree requirements.*

### Major-Field - Specified Options

*Upper-Level Courses:* An additional 15 units at the 400 or 500 level from Courses Constituting the Field of Psychology.

Earn at least 15 credits from the following:

- Courses Constituting the Field of Psychology

### Additional Comments:

## Degree Options

### Type

### Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

Programs in Psychology cannot be taken in conjunction with programs in Neuroscience. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

### Introduction

Psychology is both a science and a profession. As scientists, psychologists work in a variety of settings like universities, hospitals, government, and corporations and carry out both basic and applied research. As a profession, psychology includes a number of different types of practitioners who apply psychological knowledge to solve personal, social, and practical problems. These include clinical psychologists who specialize in the identification and treatment of psychological disorders but also provide psychological assessments, health-related services, and psychological interventions. Practitioners also include industrial/organizational psychologists who work in recruitment, selection, training, and other business practice areas. Career options depend on students' goals and interests and the level and type of training acquired. With a BA or BSc, students may find employment in a variety of settings and a range of occupations such as human resources manager, addictions counsellor, researcher, consultant, case worker, etc. A degree in psychology can also be the first step in the pursuit of a variety of careers in fields that require an undergraduate degree such as law, medicine, management, social work, speech pathology, and audiology. Students wishing to work as a clinical or counselling psychologist will require additional university training in Psychology beyond the BA or BSc degree. Students wishing to take a Psychology degree that emphasizes the social sciences and humanities should register for the BA degree; those who wish to emphasize the biological and natural sciences should register for the BSc degree. Students who are interested in pursuing graduate study in Psychology should consider the Psychology BA or BSc Honours Program.

### Admissions

Program Admissions Information

#### Admission to the Major

Prospective students must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

#### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Psychology Majors are eligible to apply for Honours upon completion of at least 72 units, with at least one lab course (i.e., 3 units from Psychology 400, 415, 425, 427, 430, 435, 478, 504, or 505).

Due to high demand, the qualifying grade point average for eligibility for admission to Honours Psychology is typically set higher than the minimum 3.30 level for the Faculty of Arts. When this is the case, the qualifying average for the following year is announced on the Department website by October 1. For the purpose of admission to Honours, a student's grade point average is calculated over the most recent course work to a maximum of 60 units inclusive of courses from other institutions as well as the University of Calgary.

Psychology Majors must apply through their [Student Centre](#) for a change of program to Honours no later than January 23 of the year prior to their final year. Admission is contingent on the availability of an eligible thesis supervisor, as well as the availability of the resources (laboratory space, equipment, etc.) needed to complete the thesis. Students are encouraged to consult with the Psychology Advisor well before the January 23 deadline to determine their eligibility.

### Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

## Faculty of Arts Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

### Additional Comments:

## Courses Constituting the Field of Psychology

### Type

### Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Psychology while fulfilling the following requirements:

### Earn at least 60 credits from the following:

- Courses Constituting the Field of Psychology

### Additional Comments:

## Program Requirements

### Type

### Completion Requirement

### Major-Field - Specified Courses

### Earn at least 45 credits from the following:

- Introduction: 6 units Psychology 200, 201
- Research Methods and Statistics: 6 units Psychology 300, 301
- Foundation Courses: 6 units Psychology 345, 375
- Foundation Courses: 9 units from Psychology 321, 349\*, 352\*, 365, 369, 373, 383, 385
- History of Psychology: Psychology 305
- Applying Research Methods: 3 units from Psychology 400\*, 415, 425, 427, 430, 435, 478, 504, 505
- Advanced Research Methods: 3 units from Psychology 407, 411, 412, 415\*\*
- Honours Courses: 9 units Psychology 501 and 598, which must be completed during the final year of program

*\*A maximum of 3 units from Psychology 349 or 352 may be used to fulfill this requirement.*

*\*Students may count a maximum of 3 units from Psychology 400 toward their degree requirements.*

*\*\*Psychology 415 cannot be used to satisfy both "Applying Research Methods" and "Advanced Research Methods"*

### Major-Field - Required Options

*Senior Psychology Options:* An additional 15 units from Courses Constituting the Field of Psychology at the 400 level or above.

### Earn at least 15 credits from the following:

- Courses Constituting the Field of Psychology

### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

## Overlapping Programs

Programs in Psychology cannot be taken in conjunction with programs in Neuroscience. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

## Introduction

Psychology is both a science and a profession. As scientists, psychologists work in a variety of settings like universities, hospitals, government, and corporations and carry out both basic and applied research. As a profession, psychology includes a number of different types of practitioners who apply psychological knowledge to solve personal, social, and practical problems. These include clinical psychologists who specialize in the identification and treatment of psychological disorders but also provide psychological assessments, health-related services, and psychological interventions. Practitioners also include industrial/organizational psychologists who work in recruitment, selection, training, and other business practice areas. Career options depend on students' goals and interests and the level and type of training acquired. With a BA or BSc, students may find employment in a variety of settings and a range of occupations such as human resources manager, addictions counsellor, researcher, consultant, case worker, etc. A degree in psychology can also be the first step in the pursuit of a variety of careers in fields that require an undergraduate degree such as law, medicine, management, social work, speech pathology, and audiology. Students wishing to work as a clinical or counselling psychologist will require additional university training in Psychology beyond the BA or BSc degree. Students wishing to take a Psychology degree that emphasizes the social sciences and humanities should register for the BA degree; those who wish to emphasize the biological and natural sciences should register for the BSc degree. Students who are interested in pursuing graduate study in Psychology should consider the Psychology BA or BSc Honours Program.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Psychology

##### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Psychology while fulfilling the Program Requirements:

##### Earn at least 45 credits from the following:

- Courses Constituting the Field of Psychology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 30 credits from the following:

- Introduction: 6 units Psychology 200, 201
- Research Methods and Statistics: 6 units Psychology 300, 301
- Foundation Courses: 6 units Psychology 345, 375
- Foundation Courses: 9 units from Psychology 321, 349\*, 352\*, 365, 369, 373, 383, 385
- Applying Research Methods: 3 units from Psychology 400\*, 415, 425, 427, 430, 435, 478, 504, 505

*\*A maximum of 3 units from Psychology 349 or 352 may be used to fulfill this requirement.*

*\*Students may count a maximum of 3 units from Psychology 400 toward their degree requirements.*

## Major-Field - Specified Options

*Upper-Level Courses:* An additional 15 units at the 400 or 500 level from Courses Constituting the Field of Psychology.

**Earn at least 15 credits from the following:**

- Courses Constituting the Field of Psychology

## Other Requirements

**Earn at least 21 credits from the following:**

- 6 units Biology 241 and 243
- 6 units Chemistry 201 or 211 and 203 or 213
- 6 units Mathematics 249 or 265 and one of 211, 213, 267
- 3 units from Computer Science 217, Data Science 201, Physics 211, 221, 227

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Embedded Certificates

## Overlapping Programs

Programs in Psychology cannot be taken in conjunction with programs in Neuroscience. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

## Introduction

Psychology is both a science and a profession. As scientists, psychologists work in a variety of settings like universities, hospitals, government, and corporations and carry out both basic and applied research. As a profession, psychology includes a number of different types of practitioners who apply psychological knowledge to solve personal, social, and practical problems. These include clinical psychologists who specialize in the identification and treatment of psychological disorders but also provide psychological assessments, health-related services, and psychological interventions. Practitioners also include industrial/organizational psychologists who work in recruitment, selection, training, and other business practice areas. Career options depend on students' goals and interests and the level and type of training acquired. With a BA or BSc, students may find employment in a variety of settings and a range of occupations such as human resources manager, addictions counsellor, researcher, consultant, case worker, etc. A degree in psychology can also be the first step in the pursuit of a variety of careers in fields that require an undergraduate degree such as law, medicine, management, social work, speech pathology, and audiology. Students wishing to work as a clinical or counselling psychologist will require additional university training in Psychology beyond the BA or BSc degree. Students wishing to take a Psychology degree that emphasizes the social sciences and humanities should register for the BA degree; those who wish to emphasize the biological and natural sciences should register for the BSc degree. Students who are interested in pursuing graduate study in Psychology should consider the Psychology BA or BSc Honours Program.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Psychology Majors are eligible to apply for Honours upon completion of at least 72 units, with at least one lab course (i.e., 3 units from Psychology 400, 415, 425, 427, 430, 435, 478, 504, or 505).

Due to high demand, the qualifying grade point average for eligibility for admission to Honours Psychology is typically set higher than the minimum 3.30 level for the Faculty of Arts. When this is the case, the qualifying average for the following year is announced on the Department website by October 1. For the purpose of admission to Honours, a student's grade point average is calculated over the most recent course work to a maximum of 60 units inclusive of courses from other institutions as well as the University of Calgary.

Psychology Majors must apply through their [Student Centre](#) for a change of program to Honours no later than January 23 of the year prior to their final year. Admission is contingent on the availability of an eligible thesis supervisor, as well as the availability of the resources (laboratory space, equipment, etc.) needed to complete the thesis. Students are encouraged to consult with the Psychology Advisor well before the January 23 deadline to determine their eligibility.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

**Courses Constituting the Field of Psychology**

**Type**

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Psychology while fulfilling the following requirements:

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Psychology

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Major-Field - Specified Courses**

**Earn at least 45 credits from the following:**

- Introduction: 6 units Psychology 200, 201
- Research Methods and Statistics: 6 units Psychology 300, 301
- Foundation Courses: 6 units Psychology 345, 375
- Foundation Courses: 9 units from Psychology 321, 349\*, 352\*, 365, 369, 373, 383, 385
- History of Psychology: Psychology 305
- Applying Research Methods: 3 units from Psychology 400\*, 415, 425, 427, 430, 435, 478, 504, 505
- Advanced Research Methods: 3 units from Psychology 407, 411, 412, 415\*\*
- Honours Courses: 9 units Psychology 501 and 598, which must be completed during the final year of program

*\*A maximum of 3 units from Psychology 349 or 352 may be used to fulfill this requirement.*

*\*Students may count a maximum of 3 units from Psychology 400 toward their degree requirements.*

*\*\*Psychology 415 cannot be used to satisfy both "Applying Research Methods" and "Advanced Research Methods"*

**Major-Field - Required Options**

*Senior Psychology Options:* An additional 15 units from Courses Constituting the Field of Psychology at the 400 level or above.

**Earn at least 15 credits from the following:**

- Courses Constituting the Field of Psychology

**Other Requirements**

**Earn at least 21 credits from the following:**

- 6 units Biology 241 and 243
- 6 units Mathematics 249 or 265 and one of 211, 213, 267

## UCalgary

- 6 units Chemistry 201 or 211 and 203 or 213
- 3 units from Computer Science 217, Data Science 201, Physics 211, 221, 227

Additional Comments:

### Degree Options

#### Type

#### Completion Requirement

##### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Overlapping Programs

Programs in Psychology cannot be taken in conjunction with programs in Neuroscience. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Additional Comments:

## Overview

### General Program Information

#### Specializations:

- Industrial/Organizational Psychology
- Medical Im
- Wearable T
- Comp Neuro

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## Admissions

### Program Admissions Information

Deadlines for the submission of completed applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/psychology-master-science-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/psychology-master-science-thesis-based).

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

a) A four-year undergraduate degree in Psychology or related discipline. Students not having an undergraduate degree in Psychology must demonstrate adequate background in psychology. Those needing additional work may be required to take particular courses.

- b) A minimum admission grade point average of 3.40 on a four-point scale over the last 60 units.
- c) An undergraduate course in statistics/experimental design.
- d) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), an IELTS score of 7.5, a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in each course.
- e) Two academic reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculties of Graduate Studies requirements and Arts requirements, the Department requires students to complete no fewer than 12 units of coursework, which include:

##### Complete ALL of the following Courses:

- PSYC600 - Professional Development

##### Earn at least 6 credits from the following:

- PSYC607 - Advanced Research Design and Methodology in Psychology
- OR PSYC611 - Advanced Qualitation Inquiry in Psychology
- OR PSYC613 - Signal and Systems Analysis in Behavioural Research
- OR PSYC615 - Analysis of Variance
- OR PSYC617 - Multivariate Data Analysis
- OR PSYC619 - Special Topics in the Design of Psychological Research

##### Earn at least 3 credits from the following:

- PSYC601 - History of Psychology
- OR PSYC620 - Advanced Topics in Brain and Cognitive Sciences
- OR PSYC623 - Functional Neuroanatomy
- OR PSYC630 - Advanced Topics in Social and Theoretical Psychology
- OR PSYC639 - Adv Industrial & Organize Psyc
- OR PSYC700 - Integrative Seminar in Psychology
- OR PSYC710 - Integrative Seminar in Psychology
- OR PSYC720 - Seminar in Brain and Cognitive Sciences
- OR PSYC730 - Seminar in Social and Theoretical Psychology
- OR PSYC739 - Seminar in Industrial/Organizational Psychology

These courses may be substituted with seminar courses from other departments with approval by the supervisor and the Graduate Program Director.

#### Additional Comments:

### Industrial Organizational Specialization

I/O students in the MSc program are required to take 24 units with 6 units in research methods and statistics, 12 units in I/O Psychology (Psychology 639, 739), and 6 units outside the I/O area.

#### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Psychology program in the Psychology Department will not permit the Flexible Grade Option (CG Grade) for any course offered by the Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for 500-level undergraduate courses up to a maximum of three courses.

### Time Limit

Expected completion time is two years for the Master of Science program.

### Supervisory Assignments, Research Proposal and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

### Supervisory Assignments

An interim supervisor is assigned to each student at the time of admission. In no case will a student be admitted if an appropriate supervisor is not expected to be available. The shift from interim to permanent supervisor formally takes place at the end of the first year. The Graduate Program Director must approve the permanent supervisor.

Master's level students must have a supervisory committee consisting of the supervisor plus two other faculty members.

### Research Proposal

Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

All Master of Science students must formally present a thesis proposal not more than 14 months after admission to the program. The proposal must be typed and 10 to 30 double-spaced pages (12 pt font, reference list extra). Students must consult with their supervisors. The supervisory committee must approve the thesis proposal.

### Thesis Examinations

In addition to Faculty of Graduate Studies regulations for Thesis Examinations, the program requires the following:

Thesis oral examinations are open.

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to submit their applications to the Department by January 15.

## **Overview**

### **General Program Information**

The Department accepts applicants who plan to remain full-time to the completion of their degree. The program does not offer a part-time option.

### **Specializations:**

- Industrial Organizational Specialization
- [Medical Im](#)
- [Wearable T](#)
- [Comp Neuro](#)

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## **Admissions**

### **Program Admissions Information**

Deadlines for the submission of completed applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/psychology-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/psychology-doctor-philosophy-thesis-based)

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- a) A four-year undergraduate degree in Psychology or related discipline. Students not having an undergraduate degree in Psychology must demonstrate adequate background in psychology. Those needing additional work may be required to take particular courses.
- b) A minimum admission grade point average of 3.40 on a four-point scale over the last 60 units.
- c) An undergraduate course in statistics/experimental design.
- d) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), an IELTS score of 7.5, a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- e) Two academic reference letters.

## **Program Details**

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires students to complete no fewer than 12 units of coursework, which include:

**Earn at least 6 credits from the following:**

- PSYC601 - History of Psychology  
**OR** PSYC620 - Advanced Topics in Brain and Cognitive Sciences  
**OR** PSYC623 - Functional Neuroanatomy  
**OR** PSYC630 - Advanced Topics in Social and Theoretical Psychology  
**OR** PSYC639 - Adv Industrial & Organize Psyc  
**OR** PSYC700 - Integrative Seminar in Psychology  
**OR** PSYC710 - Integrative Seminar in Psychology  
**OR** PSYC720 - Seminar in Brain and Cognitive Sciences  
**OR** PSYC730 - Seminar in Social and Theoretical Psychology  
**OR** PSYC739 - Seminar in Industrial/Organizational Psychology
- plus 6 units of elective courses.

The supervisor and the Graduate Program Director must approve all courses.

#### Additional Comments:

### Industrial Organizational Specialization

I/O students in the PhD program are required to take 12 units in I/O Psychology ([PSYC739 Sem Industrial/Organiz Psyc](#)), and 6 units outside of I/O Psychology that were not completed during the MSc program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Psychology program in the Psychology Department will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for 500-level undergraduate courses up to a maximum of three courses.

## Time Limit

Expected completion time is two years for the Master of Science program and four years for the doctoral program. See [Time Limits](#).

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An interim supervisor is assigned to each student at the time of admission. In no case will a student be admitted if an appropriate supervisor is not expected to be available. The shift from interim to permanent supervisor formally takes place at the end of the first year. The Graduate Program Director must approve the permanent supervisor.

## Research Proposal

Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

## Required Examinations

### Candidacy

Doctoral students must pass oral and written Field of Study examinations and must submit a written thesis proposal, which is approved by their Supervisory Committee in a Thesis Proposal Meeting. For further information see [Psychology Candidacy Requirements](#).

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following:

Thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to submit their applications to the Department by January 15.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Classics and Religion offers instruction in Ancient and Medieval History, Greek and Roman Studies, and Religious Studies.

Religious Studies seeks to foster an understanding of the wide variety of religions that have influenced the development of human cultures and that continue to be powerful forces in today's world. Courses examine religious worldviews and their associated texts and practices, movements and institutions, as they appear now and as they have developed over time in many cultures of the world. The Field of Religious Studies is multicultural, i.e., religions from all over the world are the subject of study, including the ancient traditions of Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity, and Islam, as well as religious movements of more recent origin. Religious Studies is also multidisciplinary, which means that religion is studied with the use of methods and theories from various disciplines, including history, anthropology, philosophy, sociology, psychology, literary theory, and feminist theory.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Religious Studies) Program should refer to the Faculty of Arts section [3.1 Admission](#) and meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

## Program Details

Simple Requisites

### Faculty of Arts Requirements

Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

Additional Comments:

### Courses Constituting the Field of Religious Studies

Type

## Completion Requirement

Students must successfully complete a minimum of 42 to a maximum of 60 units in Courses Constituting the Field of Religious Studies while fulfilling the Program Requirements.

**Earn at least 42 credits from the following:**

- Courses Constituting the Field of Religious Studies

## Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 18 credits from the following:**

- 9 units Religious Studies 201, 203, and 205
- 3 units Religious Studies 377
- 3 units Religious Studies 437
- 3 units Religious Studies 447

#### Major-Field - Required Options

Complete 24 units from Courses Constituting the Field of Religious Studies, of which 6 must be at the 400 level or above

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Religious Studies

## Additional Comments:

## Concentration in Philosophy and Religion

### Type

### Completion Requirement

#### Concentration in Philosophy and Religion

Students completing a BA or BA Honours in Philosophy or Religious Studies can elect to complete a concentration in Philosophy and Religion. Students must complete 18 units selected from the following:

**Earn at least 18 credits from the following:**

- Philosophy 201, 331, 335, 527
- Religious Studies 363, 370, 444, 463

Other senior-level Philosophy or Religious Studies courses may be accepted when the topic is appropriate and with approval from the Department of Classics and Religion.

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/classics-religion](https://arts.ucalgary.ca/classics-religion)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Religious Studies seeks to foster an understanding of the wide variety of religions that have influenced the development of human cultures and that continue to be powerful forces in today's world. Courses examine religious worldviews and their associated texts and practices, movements and institutions, as they appear now and as they have developed over time in many cultures of the world. The Field of Religious Studies is multicultural, i.e., religions from all over the world are the subject of study, including the ancient traditions of Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity, and Islam, as well as religious movements of more recent origin. Religious Studies is also multidisciplinary, which means that religion is studied with the use of methods and theories from various disciplines, including history, anthropology, philosophy, sociology, psychology, literary theory, and feminist theory.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Religious Studies) Program should refer to the Faculty of Arts section **3.1 Admission** and meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements**.

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

#### Courses Constituting the Field of Religious Studies

**Type**

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Religious Studies while fulfilling the Program Requirements.

**Enroll in the following Requirement Sets:**

- Courses Constituting the Field of Religious Studies

**Additional Comments:**

#### Program Requirements

**Type**

Completion Requirement

##### Major-Field - Specified Courses

**Earn at least 24 credits from the following:**

- 9 units Religious Studies 201, 203, and 205
- 3 units Religious Studies 377
- 3 units Religious Studies 437
- 3 units Religious Studies 447
- Honours Thesis: 6 units Religious Studies 590

##### Major-Field - Required Options

Complete 36 units in Courses Constituting the Field of Religious Studies, of which 12 units must be at the 400 level or above.

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Religious Studies

##### Other Requirements

**Language Requirement**

Complete 6 units in a single language other than English. Language courses labelled Religious Studies can be counted as part of the 60 units in Religious Studies.

**Additional Comments:**

#### Concentration in Philosophy and Religion

## Type

### Completion Requirement

#### Concentration in Philosophy and Religion

Students completing a BA or BA Honours in Philosophy or Religious Studies can elect to complete a concentration in Philosophy and Religion. Students must complete 18 units selected from the following:

#### Earn at least undefined credits from the following:

- Philosophy 201, 331, 335, 527
- Religious Studies 363, 370, 444, 463

Other senior-level Philosophy or Religious Studies courses may be accepted when the topic is appropriate and with approval from the Department of Classics and Religion.

### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Additional Comments:

## Overview

### General Program Information

#### Specializations:

- Eastern Religions
- Nature of Religion
- Western Religions

Feasibility of areas within these specializations depends on available research resources and faculty expertise.

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Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/religious-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/religious-studies-master-arts-thesis-based).

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) An admission grade point average of 3.30 or higher on a four-point scale and a minimum of 36 units in Religious Studies (or their equivalents), usually including at least 6 units from each of the three streams (Eastern, Western, Nature), as determined by the graduate committee.
- b) A reading knowledge of a modern language other than English or of a classical language appropriate to the thesis research. The language requirement normally should be met before admission to the master's program. If this is not the case, the language requirement should be met during the students' course of study in the master's program.
- c) Two reference letters.
- d) Applicants must include in their application package a sample of written work (e.g. a recent research essay).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, the Department normally requires:

- a) Five courses (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission).

##### Complete ALL of the following Courses:

- RELS601 - Studies in Western Religions  
**AND** RELS603 - Studies in Eastern Religions  
**AND** RELS605 - Studies in the Nature of Religion  
**AND** RELS607 - Supervised Master's Thesis Inquiry  
**AND** RELS609 - Selected Topics on Critical Discourses in the Study of Religion

- b) A thesis proposal to be presented to the Graduate Studies Committee for evaluation and approval before the second annual registration.

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Advanced Credit

Any requests for [advanced credit](#) must be made when applying for admission. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Graduate course work completed before admission and not counted toward satisfying undergraduate degree requirements will be assessed by the Departmental Graduate Committee to determine course requirements.

### Flexible Grade Option (CG Grade)

The Religious Studies program in the department Of Classics and Religion will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Religious Studies program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit for undergraduate courses will be given only upon approval of the Departmental Graduate Committee.

## Time Limit

Expected completion time for full-time students is two years in the master's program. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Departmental Graduate Committee assigns an advisor (interim supervisor) when an applicant is recommended for admission to the Faculty of Graduate Studies. A regular supervisor must be assigned by the beginning of the second registration year.

## Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or inquire of the Department.

Students applying for scholarships must submit their applications to the Department by February 1.

## Overview

### General Program Information

#### Specializations:

- Eastern Religions
- Nature of Religion
- Western Religions

Feasibility of areas within these specializations depends on available research resources and faculty expertise.

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## Admissions

### Program Admissions Information

Deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/religious-studies-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/religious-studies-doctor-philosophy-thesis-based)

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A degree comparable to the University of Calgary Religious Studies Master of Arts with a minimum grade point average of 3.50 on a four-point scale.
- b) Two reference letters.
- c) Applicants must include in their application package a sample of written work (e.g. a recent research essay).

Students with an Honours Bachelor of Arts degree in Religious Studies, a grade point average of 3.70 or higher, and evidence of competence in the required languages may be admitted directly into the doctoral program or may be considered for transfer to the doctoral program after the first year of the master's program. Such applicants must include in their application package a detailed statement (10 pages) of the purpose, field, and course of study to be pursued in the program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department normally requires:

- a) For students with a Master of Arts in Religious Studies, five courses are required (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission):

**Complete ALL of the following Courses:**

- RELS701 - Studies in Western Religions  
**AND** RELS703 - Studies in Eastern Religions  
**AND** RELS705 - Studies in the Nature of Religion  
**AND** RELS707 - PhD Departmental Colloquium  
**AND** RELS709 - Advanced Topics on Critical Discourses in the Study of Religion

- b) For students with a BA Honours or for students transferring from the master's program, eight courses are required (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission):

**Complete ALL of the following Courses:**

- RELS601 - Studies in Western Religions  
**AND** RELS603 - Studies in Eastern Religions  
**AND** RELS605 - Studies in the Nature of Religion  
**AND** RELS701 - Studies in Western Religions  
**AND** RELS703 - Studies in Eastern Religions

**AND RELS705 - Studies in the Nature of Religion**  
**AND RELS707 - PhD Departmental Colloquium**  
**AND RELS709 - Advanced Topics on Critical Discourses in the Study of Religion**

**Additional Comments:**

## PhD Language Requirements

Before the written candidacy examination, doctoral students must demonstrate a reading knowledge of at least two languages other than English. At the discretion of the Department and upon recommendation of the Graduate Director, competency in additional languages may be required. The foreign language requirement may be satisfied in two ways:

- a) Successful completion (final grade of "B" or higher) at some stage of the student's university program of at least 12 units in a first language other than English, and 6 units in a second language; or
- b) Successful completion (grade of "B" or higher) of a language examination administered by the Department of Classics and Religion or by another department on behalf of the Department of Classics and Religion. When the test is administered by another department, it will consist of a passage or passages selected by the supervisor and/or any requirements that the other department may deem necessary; the test will be graded by the examiner(s) of the other department. When members of the Department of Classics and Religion administer the test, the examination questions will be determined, administered, and graded by two members of the Department (one of whom normally will be the supervisor) who have expertise in the language under consideration. In the event that a second person with expertise in the required language is not available, the Department Head may seek an expert from outside the department.

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

Any requests for advanced credit must be made when applying for admission. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Graduate course work completed before admission and not counted toward satisfying undergraduate degree requirements will be assessed by the Departmental Graduate Committee to determine course requirements.

## Flexible Grade Option (CG Grade)

The Religious Studies program in the department Of Classics and Religion will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Religious Studies program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit for undergraduate courses will be given only upon approval of the Departmental Graduate Committee.

## Time Limit

Expected completion time for full-time students is four years in the PhD program. Maximum completion time is six years in the doctoral program.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

The Departmental Graduate Committee assigns an advisor (interim supervisor) when an applicant is recommended for admission to the Faculty of Graduate Studies. A regular supervisor must be assigned by the beginning of the second registration year.

## Required Examinations

### Candidacy

Doctoral students must complete language requirements, a written thesis proposal, and Field of Study examinations: two written and one oral. For complete details of the candidacy requirements, see [clare.ucalgary.ca/graduate/phd-candidacy-policies](http://clare.ucalgary.ca/graduate/phd-candidacy-policies).

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

*Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or inquire of the Department.

Students applying for scholarships must submit their applications to the Department by February 1.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/sociology](http://arts.ucalgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](http://arts.ucalgary.ca/advising).

## Introduction

Sociology contributes to understanding our social world by studying how groups, organizations, societies, and their cultural products are produced, reproduced and transformed by the actions and interactions of people in social contexts. The Sociology program cultivates students' sociological imaginations by offering a wide range of opportunities to think sociologically and to use different theoretical approaches, research methods and data-analysis techniques so students gain experience thinking with and using a sociological perspective.

## Sociology and Law and Society Students Association

The Sociology and Law and Society Students Association (SLSA) is actively engaged in promoting the academic and social interests of students who Major or Minor in Sociology or Law and Society. The SLSA fosters a sense of community within the Department and represents the interests of undergraduate Sociology and Law and Society students at appropriate councils and committees. All Sociology and Law and Society students are encouraged to become members.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Sociology) Program or the BA (Law and Society) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

#### Faculty of Arts Requirement

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Sociology

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Sociology while fulfilling the Program Requirements

##### Complete ALL of the following Requirement Sets:

- Courses Constituting the Field of Sociology

#### Additional Comments:

#### Program Requirements

## Type

### Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 18 credits from the following:

- Core: 18 units Sociology 201, 311, 313, 315, 331, 333.

#### Major-Field Required Options

- *Advanced-Level Sociology*: 12 units at the 400 level or above\*.
- *Sociology Options*: 12 additional units from Courses Constituting the Field of Sociology.

##### Earn at least 24 credits from the following:

- Courses Constituting the Field of Sociology

\*Sociology 501 may be counted only twice towards the major field requirements in Sociology.

### Additional Comments:

## Concentrations - SUSPENDED

### Type

#### Completion Requirement

#### Concentrations

**Applications to the concentrations are currently suspended. No new admissions will be permitted.**

The BA in Sociology can be taken with a concentration in (a) Criminology, Deviance and Social Control; (b) Gender, Family and Work; (c) Social Inequalities and Social Justice.

##### Complete ALL of the following Requirement Sets:

- Criminology, Deviance and Social Control Concentration
- Gender, Family and Work
- Social Inequalities and Social Justice Concentration

### Additional Comments:

## Degree Options

### Type

#### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

### Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/sociology](https://arts.ucalgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Sociology contributes to understanding our social world by studying how groups, organizations, societies, and their cultural products are produced, reproduced and transformed by the actions and interactions of people in social contexts. The Sociology program cultivates students' sociological imaginations by offering a wide range of opportunities to think sociologically and to use different theoretical approaches, research methods and data-analysis techniques so students gain experience thinking with and using a sociological perspective.

## Sociology and Law and Society Students Association

The Sociology and Law and Society Students Association (SLSA) is actively engaged in promoting the academic and social interests of students who Major or Minor in Sociology or Law and Society. The SLSA fosters a sense of community within the Department and represents the interests of undergraduate Sociology and Law and Society students at appropriate councils and committees. All Sociology and Law and Society students are encouraged to become members.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Sociology) Program or the BA (Law and Society) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must submit a change of program request through their [Student Centre](#) by February 1.

In addition, for admission to the Honours program in Sociology, the following is also required:

1. Completion of at least 72 units at the time of application.
2. Completion of Sociology 311, 313, 315, 331 and 333.
3. Consultation with three potential supervisors and submission of the Statement of Intent by January 15. Please see the website for additional details.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

## Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

### Additional Comments:

## Courses Constituting the Field of Sociology

### Type

Completion Requirement

Students must successfully complete a minimum of 54 units to a maximum of 72 units in Courses Constituting the Field of Sociology while fulfilling the Program Requirements.

### Earn at least 54 credits from the following:

- Courses Constituting the Field of Sociology

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

### Major-Field - Specified Courses

### Earn at least 54 credits from the following:

- Core: 18 units Sociology 201, 311, 313, 315, 331, 333.
- Honours Thesis: 6 units Sociology 590

### Major-Field - Required Options

- *Advanced-Level Sociology*: 12 units at the 400 level or above\*.
- *Sociology Options*: 18 additional units from Courses Constituting the Field of Sociology.

### Earn at least 30 credits from the following:

- Courses Constituting the Field of Sociology

*\*Sociology 501 may be counted only twice towards the major field requirements in Sociology.*

### Additional Comments:

## Concentrations - SUSPENDED

### Type

Completion Requirement

### Concentrations

Applications to the concentrations are currently suspended. No new admissions will be permitted.

The BA in Sociology can be taken with a concentration in (a) Criminology, Deviance and Social Control; (b) Gender, Family and Work; (c) Social Inequalities and Social Justice.

**Complete ANY of the following Requirement Sets:**

- Criminology, Deviance and Social Control Concentration
- Gender, Family and Work
- Social Inequalities and Social Justice Concentration

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

### General Program Information

The work completed in the course-based Master of Arts program is considered equivalent to a major research project and is appropriate for students who intend to proceed to doctoral studies.

The MA, course-based is a continuous program with no scheduled break.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-ma-course>.

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) Thesis-based program: a grade point average of 3.5 on a four-point scale over the last two years of coursework or 60 units.  
Course-based program: a grade point average of 3.3 on a four-point scale over the last two years of coursework or 60 units.
- b) Demonstrated competence, normally through course work, in classical and contemporary sociological theory, social research methods, and social statistics.

- c) A written statement of intent.
- d) A sample of written work. Possible writing samples include a term paper, a research report, a thesis chapter or an article. Writing samples cannot be co-authored and those with sociological content are preferred.
- e) Two reference letters.
- f) Students must hold a four-year degree from a recognized/accredited institution. If degree was received from a university outside of Canada, refer to the country-specific degree requirements: [grad.ucalgary.ca/prospective/admissions/international-admission-requirements](http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

27 units of courses including:

- a) Competence in sociological statistics, methods of sociological research, and sociological theory demonstrated by completing [SOCI611 Soc Stats:General Linear Model](#), [SOCI613 Sem Quantitative Res Methods](#), [SOCI615 SeminarInQualitativeResMethod](#) or an alternative methods course offered by the Sociology Department; and [SOCI631 Seminar in Sociological Theory](#).
- b) 9 units of electives at the 600 or 700 level; at least 6 units must consist of courses labelled SOCI.
- c) 3 units from [SOCI606 Master's Seminar Prof SOCI I](#) and [SOCI607 Master's Seminar Prof SOCI II](#) (1.5 units each).
- d) 6 units of [SOCI680 Major Research Project](#), a course (major research paper) taken in spring and summer terms.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to two 600-level Sociology courses (6 units).

### Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

### Time Limit

Expected completion time is 12 months for the course-based Master of Arts. Maximum completion time is four years.

### Research Proposal Requirements

#### Type

Completion Requirement

#### Additional Comments:

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. Information on departmental funding is available in the online **Graduate Student Handbook**. For further information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## Overview

### General Program Information

The MA (thesis-based) is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-ma-thesis>.

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) Thesis-based program: a grade point average of 3.5 on a four-point scale over the last two years of coursework or 60 units.  
Course-based program: a grade point average of 3.3 on a four-point scale over the last two years of coursework or 60 units.
- b) Demonstrated competence, normally through course work, in classical and contemporary sociological theory, social research methods, and social statistics.
- c) A written statement of intent.
- d) A sample of written work. Possible writing samples include a term paper, a research report, a thesis chapter or an article. Writing samples cannot be co-authored and those with sociological content are preferred.
- e) Two reference letters.

f) Students must hold a four-year degree from a recognized/accredited institution. If degree was received from a university outside of Canada, refer to the country-specific degree requirements: [grad.ucalgary.ca/prospective/admissions/international-admission-requirements](http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

18 units of courses including:

- a) Competence in sociological statistics, methods of sociological research, and sociological theory demonstrated by completing **SOCI611 Soc Stats:General Linear Model; SOCI613 Sem Quantitative Res Methods, SOCI615 SeminarInQualitativeResMethod** or an alternative methods course offered by the Sociology Department; and **SOCI631 Seminar in Sociological Theory**.
- b) 6 units of electives on substantive topics at the 600 or 700 level; at least 3 units of elective must be a Sociology Department offering.
- c) 3 units from **SOCI606 Master's Seminar Prof SOCI I** and **SOCI607 Master's Seminar Prof SOCI II** (1.5 units each) and successful preparation and completion of a thesis prospectus.
- d) Completion of the MA Thesis requirement.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to three 600- or 700-level courses (9 units).

### Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the **Flexible Grade Option (CG Grade)** for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

### Time Limit

Expected completion time is 20 months for the thesis-based Master of Arts. Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An interim supervisor is assigned to all incoming students in the thesis-based MA programs. Thesis-based MA students, after one term in the program, will make supervisory arrangements with a faculty member in the chosen area of research.

## Research Proposal

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

Thesis-based Master of Arts students are required to prepare a thesis proposal within nine months of the date of entry into the program.

## Thesis Examinations

Thesis examinations are open. In addition to Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. Information on departmental funding is available in the online [Graduate Student Handbook](#). For further information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## Overview

### General Program Information

The PhD programs in Sociology is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

## Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-phd>

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- a) A grade point average of 3.5 on a four-point scale over a master's program.
- b) Demonstrated competence in sociological theory, social methodology, and social statistics, in addition to a substantive interest.
- c) A written statement of intent.
- d) A sample of written work.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Course requirements:

- [SOCI611 Soc Stats:General Linear Model](#) (students who have completed this or an equivalent graduate-level statistics course may substitute any other 600- or 700-level course);
- [SOCI706 Doctoral Seminar Prof SOCI I](#), [SOCI707 Doctoral Seminar Prof SOCI II](#) and [SOCI731 Doctoral Seminar Soci Theory](#);
- 6 units of methodology courses at the 700 level;
- 6 units of electives on substantive topics at the 600 or 700 level; at least 3 units of elective must be selected from Sociology Department offerings.

b) Completion of the PhD Thesis requirement.

## Copyediting Policy

Students may hire an editor to copyedit their theses. The student, supervisor and editor must abide by the following regulations:

1. Prior to hiring a copy editor, permission from the supervisor(s) must be obtained. An agreement outlining the permitted scope of editing must be signed by the student and the supervisor(s).
2. A disclosure statement is required in the thesis (e.g., a sentence in the preface or acknowledgment stating that the thesis has been professionally edited).
3. Under no circumstances should the copyediting alter the content, structure or contribution of the thesis.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to three 600- or 700-level courses (9 units).

### Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the **Flexible Grade Option (CG Grade)** for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

### Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

An interim supervisor is assigned to all incoming students in the PhD program. PhD students, after two terms in the program, will make supervisory arrangements with a faculty member in the chosen area of research. In the case of PhD students, the supervisor and student will select two other faculty members to serve on the student's supervisory committee.

### Research Proposal

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

### Required Examinations

#### Candidacy

Doctoral students must complete a thesis prospectus, normally within fourteen months of initial registration in the doctoral program. Successful completion of the prospectus means that the Supervisory Committee has approved the thesis project, and a written copy of the prospectus is filed with the Sociology Department Student Administrator.

Doctoral students must pass a Field of Study examination with a written and an oral component, normally completed within twenty months of initial registration in the doctoral program.

For complete details of the candidacy requirements, see [soci.ucalgary.ca/graduate/phd-program](https://soci.ucalgary.ca/graduate/phd-program).

#### Thesis Examinations

Thesis examinations are open. In addition to Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

## *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to qualified students. Information on departmental funding is available in the online **Graduate Student Handbook**. For further information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## **Overview**

### **General Program Information**

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## **Admissions**

### **Program Admissions Information**

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts **requirements**, Music requires:

- a) A completed Bachelor of Music degree (or equivalent).
- b) A live audition or video/audio recording. Repertoire for the audition must contain representative works from a variety of historical periods and must demonstrate an advanced level of technical accomplishment. Recordings should be approximately 20-30 minutes in length. Live auditions are scheduled for early February. Specific dates and times can be arranged by contacting the Graduate Program Administrator at 403.220.5422 or email <mailto:artsgradsc@ucalgary.ca>.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## **Program Details**

### **Simple Requisites**

#### **Program/Course Requirements**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#), [MUSI651 Sel Top Electroacoustic Music](#) and [MUSI653 Projects in Computer Music](#)
- 3-unit graduate Music course, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be either a substantial sonic arts creative project with an accompanying research document or a portfolio of sonic arts creative work, realized in the second year of study, and an accompanying descriptive essay related to the portfolio. The project or portfolio of works will be performed or presented in public prior to the thesis defence.

## Additional Program Information

### Type

Completion Requirement

Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is five years for the Master of Music programs.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project. In (Sonic Arts) the exam questions will be based on a compiled bibliography (readings and works) relevant to the student's area of research.

### Thesis Examinations

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://grad.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) A portfolio of sonic arts creative and/or research projects, and an extended research paper.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- [MUSI751 Adv Top Electroacoustic Music](#) and [MUSI753 Adv Projects in Computer Music](#)
- 12 units of additional approved graduate courses.

### Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

The thesis is interpreted to be a cohesive sonic arts creative project with an accompanying research document approved by the supervisory committee. The project will be performed or presented in public prior to the thesis defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is six years for the doctoral program.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

## Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

### Admissions

#### Program Admissions Information

#### Admission to the Major

Prospective students wishing to enter the BA Spanish Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Program Details

#### Simple Requisites

##### Faculty of Arts Requirements

###### Type

###### Completion Requirement

##### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

##### Additional Comments:

##### Courses Constituting the Field of Spanish

###### Type

###### Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Spanish while fulfilling the Program Requirements.

##### Earn at least 42 credits from the following:

- Courses Constituting the Field of Spanish

**Additional Comments:**

**Program Requirements**

**Type**

**Completion Requirement**

Major-Field - Specified Courses

**Earn at least 21 credits from the following:**

- 12 units Spanish 201, 203, 301, 303
- 3 units from Spanish 321 or 323
- 6 units Spanish 405, 505

Major-Field - Required Options

*Upper-Level Courses:*

- 12 units from courses labelled Courses Constituting the Field of Spanish at the 400 level
- 9 units from Courses Constituting the Field of Spanish at the 500 level

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of Spanish

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Concurrent BA (Spanish)/BEd

**Overlapping Programs**

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

**Overview**

## General Program Information

### Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

### Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

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### Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

### Admissions

#### Program Admissions Information

#### Admission to the Major

Prospective students wishing to enter the BA Spanish Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

#### Admission to Honours in French, Language and Culture, Linguistics and Spanish

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

### Program Details

#### Simple Requisites

## Faculty of Arts Requirements

### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

### Additional Comments:

## Courses Constituting the Field of Spanish

### Type

Completion Requirement

Students must successfully complete a minimum of 54 units to a maximum of 72 units in Courses Constituting the Field of Spanish while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Spanish

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 30 credits from the following:

- 12 units Spanish 201, 203, 301, 303
- 3 units from Spanish 321 or 323
- 6 units Spanish 405, 505
- 3 units from Spanish 504 or 508
- 6 units Spanish 598

#### Major-Field - Required Options

#### Upper-Level Courses:

- 15 units from Courses Constituting the Field of Spanish at the 400 level
- 9 units from Courses Constituting the Field of Spanish at the 500 level

#### Earn at least 24 credits from the following:

- Courses Constituting the Field of Spanish

### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

## Overlapping Programs

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

### Additional Comments:

## Overview

### General Program Information

### Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

### Program Admissions Information

Prospective students wishing to enter the BA Urban Studies Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

### Type

### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

#### Courses Constituting the Field of Urban Studies

Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Urban Studies while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Urban Studies

**Additional Comments:**

#### Program Requirement

Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 21 credits from the following:**

- Core Courses: 15 units Urban Studies 253, 591; Geography 452, 454, 558
- Core Courses: 6 units from Anthropology 379; Canadian Studies 355; Geography 526, 553, 554, 565; History 354; Political Science 425, 433; Sociology 353, 453; Urban Studies 311

Research Methods for Urban Studies

**Earn at least 12 credits from the following:**

- A. Qualitative Methods: Anthropology 411; Communication and Media Studies 313, 371; English 302; Geography 483, 583; History 300; Political Science 357; Sociology 313, 413
- B. Quantitative Methods: Geography 485, 585; Political Science 399; Sociology 311, 315; Courses labelled Statistics
- C. Geospatial Methods Geography 480, 482, 567, 582, 586, 588

With a maximum of 6 units from any one of the Qualitative Methods\*, Quantitative Methods or Geospatial Methods lists

*\*In lieu of 3 units in Qualitative Methods, students may take 6 units of language instruction in a single language other than English.*

*Students must contact the Department for approval. Please note: the language courses are not counted as part of the 48 units required in the Field of Study.*

Major-Field - Required Options

**Earn at least 15 credits from the following:**

- Courses Constituting the Field of Urban Studies

Including:

- a. 9 units at the 300 level or above
- b. 6 units at the 400 level or above

**Additional Comments:**

## Degree Options

### Type

### Completion Requirement

#### Degree Options

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

#### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Programs in Earth Science can be taken in conjunction with Environmental Science, Geology, Applied and Environmental Geology or Geophysics with approval from the Faculty of Arts. Consent is required for Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/art-art-history/art-and-art-history-home](https://arts.ucalgary.ca/art-art-history/art-and-art-history-home)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

Students wishing to pursue the concurrent BFA (Visual Studies)/BEd degree program should also consult with an advisor at the Werklund School of Education. Advising contact information can be found online: [werklund.ucalgary.ca/educ\\_info/contact-us](https://werklund.ucalgary.ca/educ_info/contact-us).

## Introduction

The Department of Art is committed to the study and practice of the visual arts as these relate to:

- (a) Creative research in art practices (studio);
- (b) Critical study of art in its diverse historical and cultural settings (Art History);
- (c) Theory and practice of collecting, preserving, and exhibiting art and cultural objects (Museum and Heritage Studies); and
- (d) Educational practice and theory (Art Education).

The Department offers the four-year BFA and BFA Honours (Visual Studies) degree, the four year BA in Art History, and a five-year concurrent degree program with the Werklund School of Education, leading to the BFA (Visual Studies) and Bachelor of

## Education degrees.

Students in the four year BFA and BFA Honours (Visual Studies) are involved in creative research and visual art practices that engage with contemporary society. The courses of study enable the student to develop conceptual understanding in the visual arts, to develop a foundation of knowledge and practice of artistic self-sufficiency, to develop creative processes of planning in order to carry out their various studio interests, and to teach art in the elementary or secondary school systems or to work as art specialists in other settings. The program enables the individual student to determine through studio practice the understandings and insights that support their own artistic and intellectual development. The Honours degree in Visual Studies is an advanced undergraduate program for students seeking a more focused studio experience, aspiring to careers as practicing and professional artists, or considering further graduate level study in an MFA program. A high standard of creative achievement is required for admission, continuation, and completion.

Students in the BFA or BFA Honours (Visual Studies) may choose a Concentration in Art Education. A concentration in Art Education does not provide students with the credentials required to teach in the public school system in Alberta. It is meant to provide students with skills and knowledge that would prepare them to teach art in informal, community-based settings.

The Concurrent BFA in Visual Studies/Bachelor of Education (BFA/BEd) enables students to complete two degree options.

Students interested in teacher certification should pursue the concurrent degree program with the Werklund School of Education, which offers three years of study in the Visual Studies program and two years in the Bachelor of Education program.

Students enrolled in the BFA VIST or BFA VIST (Hon) have the option to include the Co-operative Education program. This program enables students to integrate relevant professional and work experience into their degree.

## Admissions

### Program Admissions Information

Prospective students wishing to enter the BFA in Visual Studies must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Admission to the BFA (Visual Studies) program is contingent on the evaluation of a portfolio and statement of interest. For information about the portfolio submission process, see the Department of Art and Art History website at: [arts.ucalgary.ca/art-art-history/future-students/undergraduate/upload-your-portfolio](https://arts.ucalgary.ca/art-art-history/future-students/undergraduate/upload-your-portfolio).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

#### Additional Comments:

#### Courses Constituting the Field of Art

##### Type

Completion Requirement

The BFA in Visual Studies requires the successful completion of a minimum of 69 units to a maximum of 81 units in Courses

Constituting the Field of Art while fulfilling the Program Requirements.

**Earn at least 69 credits from the following:**

- All courses labelled Art (ART), and Art History (ARHI), and Museum and Heritage Studies (MHST)

**Additional Comments:**

#### Program Requirements

**Type**

Completion Requirement

##### Core Courses

**Earn at least 45 credits from the following:**

- Studio Foundations: 12 units from courses labelled Art (ART) at the 200 level
- Interdisciplinary Art Field: 6 units from Art History 201, Art History 203, or Museum and Heritage Studies 201
- Interdisciplinary Art Field: 15 units from Art History or Museum and Heritage Studies at the 300 level or above
- Professional Practice: 6 units from Art 400 and 402
- Advanced Studio: 6 units from Art 564 and 565

##### Art Options

**Earn at least 24 credits from the following:**

- 18 units from Courses Constituting the Field of Art at the 300 level or above
- 6 units from Art 414, 420, 421, 436, 438, 445, 455, 475, 485

##### Other Requirements

**Earn at least 3 credits from the following:**

- 3 units in a course labelled English (ENGL)

**Additional Comments:**

#### Concentration in Art Education

**Type**

Completion Requirement

##### Concentration in Art Education

Students may focus their BFA in Visual Studies by including a specified set of courses in their Major or Honours degree. The designation "Art Education Concentration" will appear on the transcripts of Majors who have completed the following courses in fulfillment of their BFA (Visual Studies) degree:

**Earn at least 21 credits from the following:**

- 9 units Art 309, 342, 344
- 6 units Art 411, 491
- 3 units Art 509
- 3 units Arts 507

**Additional Comments:**

#### Concurrent BFA (Visual Studies)/BEd

Type

Completion Requirement

Concurrent BFA (Visual Studies)/BEd

## Introduction

This five-year program leads to a Bachelor of Education from the Werklund School of Education and a Bachelor of Fine Arts in Visual Studies from the Faculty of Arts. A minimum of 150 units must be successfully completed.

## Admission

Students must meet the admissions requirements for the Werklund School of Education and the BFA (Visual Studies) program (see Admission to the BFA in Visual Studies on the Admission tab) as well as the requirements of the Faculty of Arts (see [A.5 Undergraduate Degree Admission Requirements](#)). Note that admission to the BFA (Visual Studies) program is contingent on the evaluation of a portfolio (see Admission to the BFA in Visual Studies on the Admission tab).

## Faculty of Arts Graduation Requirements for the BFA Visual Studies/BEd Concurrent degree

Students must adhere to the applicable "Faculty of Arts Requirements - Major Degree Requirements" .

## Program Requirements

For students completing the Concurrent BFA (Visual Studies)/BEd, these requirements will replace the Program Requirements above.

**Complete ANY of the following Requirement Sets:**

- Concurrent BFA (Visual Studies)/BEd Program Requirements

Additional Comments:

## Degree Options

Type

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Concentration in Art Education
- Faculty of Arts - Honours Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees, and Second Baccalaureate Degrees.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/art-art-history/art-and-art-history-home](https://arts.ucalgary.ca/art-art-history/art-and-art-history-home)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

Students wishing to pursue the concurrent BFA (Visual Studies)/BEd degree program should also consult with an advisor at the Werklund School of Education. Advising contact information can be found online: [werklund.ucalgary.ca/educ\\_info/contact-us](https://werklund.ucalgary.ca/educ_info/contact-us).

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## Introduction

The Department of Art is committed to the study and practice of the visual arts as these relate to:

- (a) Creative research in art practices (studio);
- (b) Critical study of art in its diverse historical and cultural settings (Art History);
- (c) Theory and practice of collecting, preserving, and exhibiting art and cultural objects (Museum and Heritage Studies); and
- (d) Educational practice and theory (Art Education).

The Department offers the four-year BFA and BFA Honours (Visual Studies) degree, the four year BA in Art History, and a five-year concurrent degree program with the Werklund School of Education, leading to the BFA (Visual Studies) and Bachelor of Education degrees.

Students in the four year BFA and BFA Honours (Visual Studies) are involved in creative research and visual art practices that engage with contemporary society. The courses of study enable the student to develop conceptual understanding in the visual arts, to develop a foundation of knowledge and practice of artistic self-sufficiency, to develop creative processes of planning in order to carry out their various studio interests, and to teach art in the elementary or secondary school systems or to work as art specialists in other settings. The program enables the individual student to determine through studio practice the understandings and insights that support their own artistic and intellectual development. The Honours degree in Visual Studies is an advanced undergraduate program for students seeking a more focused studio experience, aspiring to careers as practicing and professional artists, or considering further graduate level study in an MFA program. A high standard of creative achievement is required for admission, continuation, and completion.

Students in the BFA or BFA Honours (Visual Studies) may choose a Concentration in Art Education. A concentration in Art Education does not provide students with the credentials required to teach in the public school system in Alberta. It is meant to provide students with skills and knowledge that would prepare them to teach art in informal, community-based settings.

The Concurrent BFA in Visual Studies/Bachelor of Education (BFA/BEd) enables students to complete two degree options.

Students interested in teacher certification should pursue the concurrent degree program with the Werklund School of Education, which offers three years of study in the Visual Studies program and two years in the Bachelor of Education program.

Students enrolled in the BFA VIST or BFA VIST (Hon) have the option to include the Co-operative Education program. This program enables students to integrate relevant professional and work experience into their degree.

## Admissions

### Program Admissions Information

#### Admission to the BFA in Visual Studies

Admission to the BFA (Visual Studies) program is contingent on the evaluation of a portfolio, which must be received by the department by February 1. For information about the portfolio submission process, see the Department of Art and Art History website: [arts.ucalgary.ca/art-art-history/future-students/undergraduate/upload-your-portfolio](https://arts.ucalgary.ca/art-art-history/future-students/undergraduate/upload-your-portfolio).

Prospective students must also meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

#### Admission to BFA Honours

Students wishing to be considered for admission into BFA Honours in Visual Studies must have completed 75 units and must meet the criteria established by the Faculty of Arts in section [3.3.2 Honours Degrees](#).

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Students majoring in Visual Studies are eligible to apply for Honours by the February 1 deadline only if they will complete the program during the following academic year. In addition to applying through the Student Centre for a change of program to Honours, students must submit a Letter of Intent and a portfolio of work to the Department of Art and Art History. Information on the supplemental components can be found on the Department of Art and Art History website. The department's application form must be signed by a thesis supervisor and include a preliminary thesis proposal. To meet the February 1 deadline, it is recommended that students wishing to enrol in the Honours program obtain guidelines and an application form from the Program Co-ordinator no later than December 1. Students are strongly advised to secure a thesis supervisor by December 15.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Combined Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Art

##### Type

Completion Requirement

The BFA Honours in Visual Studies requires the successful completion of a minimum of 81 to a maximum of 90 units in Courses Constituting the Field of Art while fulfilling the Program Requirements

##### Earn at least 78 credits from the following:

- All courses labelled Art (ART), and Art History (ARHI), and Museum and Heritage Studies (MHST)

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Core Courses

##### Earn at least 51 credits from the following:

- Studio Foundations: 12 units from courses labelled Art (ART) at the 200 level
- Interdisciplinary Art Field: 6 units from Art History 201, Art History 203, or Museum and Heritage Studies 201
- Interdisciplinary Art Field: 15 units from Art History or Museum and Heritage Studies at the 300 level or above; or Art 309, 342, 344

- Professional Practice: 6 units from Art 400 and 402
- Advanced Studio: 12 units from Art 560, 561, 563 and 564

#### Art Options

Earn at least 27 credits from the following:

- 21 units from Courses Constituting the Field of Art at the 300 level or above
- 6 units from Art 414, 420, 421, 436, 438, 445, 455, 475, 485

#### Other Requirements

Earn at least 3 credits from the following:

- 3 units in a course labelled English (ENGL)

Additional Comments:

### Concentration in Art Education

#### Type

#### Completion Requirement

#### Concentration in Art Education

Students may focus their BFA in Visual Studies by including a specified set of courses in their Major or Honours degree. The designation "Art Education Concentration" will appear on the transcripts of Majors who have completed the following courses in fulfillment of their BFA (Visual Studies) degree:

Earn at least 21 credits from the following:

- 9 units Art 309, 342, 344
- 6 units Art 411, 491
- 3 units Art 509
- 3 units Arts 507

Additional Comments:

### Degree Options

#### Type

#### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Concentration in Art Education
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

### Overlapping Programs

Programs in Art History and Visual Studies cannot be taken in conjunction with other programs in Art History or Visual Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees, and Second Baccalaureate Degrees.

Additional Comments:

## Faculty of Graduate Studies Department

The mission of the Faculty of Graduate Studies at the University of Calgary is to promote academic excellence in graduate programs and enhance the graduate student experience by developing and implementing policies that support academic success, building positive partnerships with graduate programs and faculties and providing services to graduate students. The Faculty is also closely involved in the administration of over \$30 million annually in financial awards for graduate study.

### Contact Information:

Location: MacKimmie Tower, 2nd floor

Faculty number: 403.220.4938

Fax: 403.289.7635

Email address: [graduate@ucalgary.ca](mailto:graduate@ucalgary.ca)

Website: [grad.ucalgary.ca](http://grad.ucalgary.ca)

Student information: Enquiries concerning graduate programs should be directed to the unit offering the program. The Faculty website contains direct links to units offering graduate programs: [ucalgary.ca/future-students/graduate/explore-programs](http://ucalgary.ca/future-students/graduate/explore-programs).

### Vice-Provost and Dean:

Tara L. Beattie

### Associate Deans:

Michelle Drefs (Student Experience)

Stefania Forlini (Student Experience)

Clifton Cunningham (Students)

Daniel McGrath (Scholarships)

Oleksiy Osiyevskyy (Policy and Program Development)

David Anderson (Transdisciplinary)

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### Graduate Studies Summary of Degree Programs

#### Graduate Degrees Offered

#### Graduate Combined Degree and Dual Degree Programs

#### Graduate Interdisciplinary Degrees and Specializations

#### Graduate-level Certificate, Diploma Programs and Laddered Pathways

#### Graduate Internship Programs

## Programs

### Overview

#### General Program Information

#### Specialization:

#### Biological

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Email address: [mailto:artsgradsc@ucalgary.ca](mailto:mailto:artsgradsc@ucalgary.ca)

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students [website](#).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A minimum grade point average of 3.30 or higher on a four-point scale.
- b) An example of the applicant's written work: a term paper, research paper or other writing which the applicant considers representative of their best work.
- c) A concise statement outlining the applicant's academic interests and reasons for wishing to pursue graduate work in this Department. The thesis research area should be clearly identified.
- d) An up-to-date curriculum vitae.
- e) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements:

Candidates for the MA degree are normally required to complete a minimum of 12 units in Anthropology at the 600 level. At the discretion of the Graduate Studies Committee, students may be required to take a total of 15 units of course work in Anthropology. The following courses are required of all master's students:

[ANTH603 Thesis Development](#), [ANTH605 Prof Skills For Anthropologists](#), [ANTH611 Methods In Anth Research](#)

OR

[ANTH613 Issues Methodology & Primatology](#), [ANTH631 Anthropological Theory I](#), [ANTH635 Primatological Theory](#)

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

### Flexible Grade Option (CG Grade)

The program of Anthropology in the department of Anthropology and Archaeology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Anthropology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Only where appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses.

## Time Limit

Expected completion time is two years and maximum completion time is four years. See [G.D.6 Time Limits](#).

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

A supervisor is assigned to each student upon entering the program.

## Thesis Examination

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

## Financial Assistance

Financial assistance in the form of research and teaching assistantships is available to qualified students. Information on awards can be obtained from the Department office or in the [Awards and Financial Assistance](#) section of this Calendar. All students are strongly encouraged to seek external financial assistance for the program, as the Department of Anthropology and Archaeology cannot guarantee the availability of financial assistance.

Students applying for the Graduate Awards Competition scholarships must submit their applications to the Department by January 25.

## Overview

### General Program Information

### Specialization:

- [Biological](#)

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-](http://ucalgary.ca/future-students/graduate/explore-)

programs/anthropology-doctor-philosophy-thesis-based.

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

- a) A minimum grade point average of 3.40 or higher on a four-point scale.
- b) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies requirements and Faculty of Arts requirements, the Department requires:

- a) A specialization of either primatology, or social and cultural anthropology.
- b) ANTH701 Independent Studies, a reading course in the student's substantive area. Beyond that, the supervisory committee will individually tailor each student's course requirements to the student's particular needs.
- c) For social and cultural anthropology, field work for a minimum of one year. Students in primatology will be required to collect primary data via experimental and/or observational research on wild or captive primate populations for a period of not less than twelve months. The amount of time required for field work for students who started their field work between 2019 and 2021 may be revised with the approval of the students' supervisory committee.
- d) Demonstrated proficiency in a language other than English. Normally, in the course of the doctoral program, competent faculty in other Departments will evaluate the student's linguistic competence, principally in reading and writing.

#### Additional Program Requirements

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

### Flexible Grade Option (CG)

The program of Anthropology in the department of Anthropology and Archaeology will not permit the Flexible Grade Option (CG Grade) for any course offered by the Anthropology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Only where appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses.

## Time Limits

Expected completion time is four years. Maximum completion time is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

A supervisor is assigned to each student upon entering the program.

## Candidacy

Doctoral students must complete a written thesis proposal, which will be evaluated by the supervisory committee. They must also pass oral and written Field of Study examinations and a second-language proficiency examination. For complete details of the candidacy requirements, see [antharky.ucalgary.ca/CandidacyRequirements](http://antharky.ucalgary.ca/CandidacyRequirements).

## Thesis Examination

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

## Financial Assistance

Financial assistance in the form of research and teaching assistantships is available to qualified students. Information on awards can be obtained from the Department office or in the [Awards and Financial Assistance](#) section of this Calendar. All students are strongly encouraged to seek external financial assistance for the program, as the Department of Anthropology and Archaeology cannot guarantee the availability of financial assistance.

Students applying for the Graduate Awards Competition scholarships must submit their applications to the Department by January 25.

## Overview

### General Program Information

The Advanced Nursing Practice Graduate Certificates are continuous programs with no scheduled breaks. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Also see: [GCERT Adva.](#)

#### Specializations:

- Addiction and Mental Health

## UCalgary

- Contemporary Topics in Aging
- Innovations in Teaching and Learning
- Leadership for Health System Transformation
- Healthcare Innovation and Design
- Palliative and End of Life Care
- Oncology Nursing
- Rural and Remote Nursing

Students must choose a different specialization in each of the two certificates.

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### Laddered Certificate Pathway to the Master of Nursing

Students who successfully complete one specialization of the Certificate in Advanced Nursing Practice I and a different specialization of the Certificate in Advanced Nursing Practice II will be eligible to apply for admission into the Master of Nursing (course-based) degree and will receive credit for the 24 units of coursework completed. Applications must be received within two years of completion of the Certificate in Advanced Nursing Practice II.

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Programs are delivered online.

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Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-certificate-course-based>.

The deadline to request a change in specialization is normally one week prior to students starting the Graduate Certificate in Advanced Nursing Practice I or Graduate Certificate in Advanced Nursing Practice II.

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In addition to the Faculty of Graduate Studies' [admission requirements](#), all applicants must meet the following requirements:

a) A four-year Nursing or Psychiatric Nursing baccalaureate degree preferred.

Other bachelor's degrees from recognized institutions will be considered on an individual basis.

Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.

b) Evidence of active nursing registration in Alberta through the College and Association of Registered Nurses of Alberta (CARNA) or active nursing registration in their province or territory of employment. Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent.

c) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of post-secondary study consisting of a minimum of 60 units.

d) In order of priority, preference will be given to applicants who:

Hold an active nursing registration in the Province of Alberta;

Hold an active nursing registration in a Canadian province or territory of employment;

International students\*.

e) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test);

IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.

**\*Note:** International students are eligible to apply for admission provided they meet the admission requirements and their local professional licensure requirements. However, they will not be eligible for a study permit as the program is delivered online and considered part-time.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires, at minimum, successful completion of the following:

Each of the Graduate Certificates in Advanced Nursing Practice consist of 12 units of coursework. Course requirements are determined by the specialization.

##### Complete ANY of the following Course Sets:

- NURS GC Addiction Mental Health  
OR NURS GC Contemporary Topics in Aging  
OR NURS Innovations in Teaching and Learning  
OR NURS GC Leadership for Health System Transformation  
OR NURS GC Healthcare Innovation and Design  
OR NURS GC Palliative and End of Life Care  
OR NURS GC Oncology Nursing  
OR NURS GC Rural and Remote Nursing

Students must choose different specializations in each of the two certificates (i.e., a student cannot repeat the specialization that they completed in the first certificate when they enrol in the second certificate). Students can complete a maximum of two certificates.

##### Additional Comments:

Each student is expected to complete the online Academic Scholarly Writing and Academic Integrity modules within the first two weeks of the program.

All courses in this program require students to attend instructor-led Connect Days, which are delivered online at scheduled dates and times (as listed in course outline). Students who do not attend Connect Days will normally be withdrawn from the associated course.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

Not given.

#### Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

## Time Limits

The expected completion time for each graduate certificate is 12 months. The maximum completion time for each graduate certificate is 2 years.

## Supervisory Assignments

No supervisor will be assigned for the Graduate Certificates in Advanced Nursing Practice I and II.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

No financial assistance is available for this program.

## Overview

### General Program Information

The Advanced Nursing Practice Graduate Certificates are continuous programs with no scheduled breaks. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Also see: [GCERT Adva.](#)

### Specializations:

- Addiction and Mental Health
- Contemporary Topics in Aging
- Innovations in Teaching and Learning
- Leadership for Health System Transformation
- Healthcare Innovation and Design
- Palliative and End of Life Care
- Oncology Nursing
- Rural and Remote Nursing

Students must choose a different specialization in each of the two certificates.

### Laddered Certificate Pathway to the Master of Nursing

Students who successfully complete one specialization of the Certificate in Advanced Nursing Practice I and a different specialization of the Certificate in Advanced Nursing Practice II will be eligible to apply for admission into the Master of Nursing (course-based) degree and will receive credit for the 24 units of coursework completed. Applications must be received within two years of completion of the Certificate in Advanced Nursing Practice II.

Programs are delivered online.

Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-certificate-course-based>.

The deadline to request a change in specialization is normally one week prior to students starting the Graduate Certificate in Advanced Nursing Practice I or Graduate Certificate in Advanced Nursing Practice II.

In addition to the Faculty of Graduate Studies' [admission requirements](#), all applicants must meet the following requirements:

- a) Completion of the [GCERT Adva](#) with a minimum GPA of 3.00.
- b) In order of priority, preference will be given to applicants who:
  - Hold an active nursing registration in the Province of Alberta;
  - Hold an active nursing registration in a Canadian province or territory of employment;

**\*Note:** International students are eligible to apply for admission provided they meet the admission requirements and their local professional licensure requirements. However, they will not be eligible for a study permit as the program is delivered online and considered part-time.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires, at minimum, successful completion of the following:

Each of the Graduate Certificates in Advanced Nursing Practice consist of 12 units of coursework. Course requirements are determined by the specialization.

#### Complete ANY of the following Course Sets:

- NURS GC Addiction Mental Health
  - OR** NURS GC Contemporary Topics in Aging
  - OR** NURS Innovations in Teaching and Learning
  - OR** NURS GC Leadership for Health System Transformation
  - OR** NURS GC Healthcare Innovation and Design
  - OR** NURS GC Palliative and End of Life Care
  - OR** NURS GC Oncology Nursing
  - OR** NURS GC Rural and Remote Nursing

Students must choose different specializations in each of the two certificates (i.e., a student cannot repeat the specialization that they completed in the first certificate when they enrol in the second certificate). Students can complete a maximum of two certificates.

## Additional Comments:

Each student is expected to complete the online Academic Scholarly Writing and Academic Integrity modules within the first two weeks of the program.

All courses in this program require students to attend instructor-led Connect Days, which are delivered online at scheduled dates and times (as listed in course outline). Students who do not attend Connect Days will normally be withdrawn from the associated course.

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

## Advanced Credit

Not given.

## Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the Flexible Grade Option (CG Grade) for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

## Time Limits

The expected completion time for each graduate certificate is 12 months. The maximum completion time for each graduate certificate is 2 years.

## Supervisory Assignments

No supervisor will be assigned for the Graduate Certificates in Advanced Nursing Practice I and II.

## Financial Assistance

### Type

Completion Requirement

## Additional Comments:

No financial assistance is available for this program.

## Overview

### General Program Information

### Interdisciplinary Specialization:

- Biological

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/archaeology-master-arts-thesis-based>

In addition to Faculties of Graduate Studies and Arts **admission requirements**, the Department requires:

- a) A specimen of relevant written work (an honours essay, term paper, or seminar essay bearing the grade and initials of the supervising professor, the analysis chapter of a Master of Arts thesis or a published article where the applicant is the sole or senior author).
- b) A concise statement setting forth the reasons for wishing to pursue graduate work in this department.
- c) An up-to-date curriculum vitae.
- d) A 3.30 grade point average in the last two years of program or over the last 60 units.
- e) Two letters of reference from individuals able to evaluate academic potential.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department requires:

a) Normally, 12 units including one of the following, as determined by the student's evaluation committee: **ARKY615 Topics in Arky Theory & Method** or **ARKY617 Theory & its Appl in Biol Anth.**

b) Two courses, which may include: **ANTH605 Prof Skills ForAnthropologists**, **ARKY601 Theoretical Foundations**, a course in human osteology, or other courses as determined by the student's evaluation committee.

Complete at least 1 of the following courses:

- ARKY625 - Hunter-Gatherer Adaptations  
**OR** ARKY627 - Origins Of Agriculture  
**OR** ARKY631 - The Development of Complex Societies  
**OR** ARKY633 - Specialized Analyses of Archaeological Materials  
**OR** ARKY635 - Social Identity

d) A season of field work or the equivalent.

#### Additional Comments:

### Additional Requirements

During the first two weeks in program, each student will undergo an evaluation. This is not an examination but an assessment of academic background. The specific regulations and procedures covering evaluations and examinations are on file in the Department Office and are available to students. It is the responsibility of every student to become familiar with these regulations.

Field work may be counted towards fulfillment of the full-time study and research requirement.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

The Department does not normally give advanced credit.

### **Flexible Grade Options (CG Grade)**

The program of Archaeology in the department of Anthropology and Archaeology will not permit the Flexible Grade Option (CG Grade) for any course offered by the Archaeology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### **Credit for Undergraduate Courses**

Normally only courses at the 500 level or higher may be taken for credit toward a graduate program. No more than two courses may be at the 500 level.

### **Time Limits**

Expected completion time is two years. Maximum completion time is four years.

### **Supervisory Assignments and Required Examinations**

#### **Type**

Completion Requirement

**Additional Comments:**

### **Supervisory Assignments**

The Department assigns an interim advisor to each student upon arrival. At any time before the end of the first year of studies, each student must select a faculty member to serve as supervisor. The interim advisor may become the supervisor.

Doctoral supervisory committees may be appointed at any time during the first year of studies, but no later than three months after the appointment of the supervisor. The supervisor, in consultation with the student, selects the committee.

### **Thesis Examination**

Final thesis oral examinations are open.

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

#### *Scheduling of the Examination*

All members of the supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### **Financial Assistance**

#### **Type**

Completion Requirement

**Additional Comments:**

Financial assistance in the form of research and teaching assistantships may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for Graduate Award Competition scholarships must submit their applications to the Department by January 25.

Funding is provided to students so that they can concentrate on their courses and research. Therefore, a graduate student is not allowed to work for more than 15 hours a week while holding departmental funding. Failure to abide by this policy will result in a decrease in or cancellation of departmental funding.

## Overview

### General Program Information

Interdisciplinary Specialization:

- Biological

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [antharky.ucalgary.ca](http://antharky.ucalgary.ca)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/archaeology-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Arts [admission requirements](#), the Department requires:

- A specimen of relevant written work (an honours essay, term paper, or seminar essay bearing the grade and initials of the supervising professor, the analysis chapter of a Master of Arts thesis or a published article where the applicant is the sole or senior author).
- A concise statement setting forth the reasons for wishing to pursue graduate work in this department.
- An up-to-date curriculum vitae.
- A 3.30 grade point average in the last two years of program or over the last 60 units.
- Two letters of reference from individuals able to evaluate academic potential.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- Normally, 18 units in Archaeology.
- For those without a Master of Arts degree, normally 24 units.

Note: The number of courses required of each student may vary according to each student's particular needs as determined by the supervisory committee.

- Unless previously satisfied, [ARKY601 Theoretical Foundations](#) and one of the following: [ARKY615 Topics in Arky Theory & Method](#) [ARKY617 Theory & its Appl in Biol Anth.](#)

d) Two of: Archaeology [ARKY625 Hunter-Gatherer Adaptations](#), [ARKY627 Origins Of Agriculture](#), [ARKY631 The Dev of Complex Societies](#), [ARKY633 Spec Analyses Arky Materials](#), [ARKY635 Social Identity](#).

e) [ANTH605 Prof Skills For Anthropologists](#) or its equivalent.

Other courses will be required as determined by the student's evaluation committee.

f) A research proposal approved by a committee consisting minimally of three members of the student's supervisory committee, and by the Graduate Program Director. This must be submitted within twenty months of entering the program.

g) A reading ability in a foreign language acceptable to the Department. The student's supervisory committee will decide the manner of demonstrating this ability.

Requirements (a) through (g) must be completed before sitting the written and oral components of the candidacy examination.

h) Normally, two seasons of field work. However, students specializing in laboratory-based topics, like physical anthropology, may substitute an approved program of laboratory work for one of the field work seasons. Students specializing in laboratory-based topics, like physical anthropology, who started their field work between 2019 and 2021 may substitute one or more field work seasons with the approval of their supervisory committee.

During the first two weeks in program, each student will undergo an evaluation. This is not an examination but an assessment of academic background. The specific regulations and procedures covering evaluations and examinations are on file in the Department Office and are available to students. It is the responsibility of every student to become familiar with these regulations.

Field work may be counted towards fulfillment of the full-time study and research requirement.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The Department does not normally give [advanced credit](#).

#### Flexible Grade Option (CG Grade)

The program of Archaeology in the department of Anthropology and Archaeology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Archaeology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Normally only courses at the 500 level or higher may be taken for credit toward a graduate program. No more than two courses may be at the 500 level.

#### Time Limit

Expected completion time is four years and maximum completion time is six years for the doctoral degree.

#### Other Information

The Department has laboratories equipped for anthropometric and osteological analysis, faunal analysis, and microbotanical and ge archaeological research. A number of teaching and comparative archaeological and zooarchaeological collections are maintained. Field equipment including survey, photographic and camping equipment is available.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Department assigns an interim advisor to each student upon arrival. At any time before the end of the first year of studies, each student must select a faculty member to serve as supervisor. The interim advisor may become the supervisor.

Doctoral supervisory committees may be appointed at any time during the first year of studies, but no later than three months after the appointment of the supervisor. The supervisor, in consultation with the student, selects the committee.

### Required Examinations

#### Candidacy

Doctoral students must complete a written thesis proposal, which will be evaluated by the supervisory committee. They must also pass oral and written Field of Study examinations and a second-language proficiency examination. For complete details of the candidacy requirements, see <https://antharky.ucalgary.ca/CandidacyRequirements>.

#### Thesis Examination

Final thesis oral examinations are open.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

##### *Scheduling of the Examination*

All members of the supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance in the form of research and teaching assistantships may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competition scholarships must submit their applications to the Department by January 25.

Funding is provided to students so that they can concentrate on their courses and research. Therefore, a graduate student is not allowed to work for more than 15 hours a week while holding departmental funding. Failure to abide by this policy will result in a decrease in or cancellation of departmental funding.

## Overview

### General Program Information

Students applying for the MFA degree offered by the Department of Art may choose to identify one of the following formal specializations:

# UCalgary

Specializations:

## Specializations:

- Sculpture
- Printmaking
- Photography
- Painting
- Drawing
- Media Art and Technology

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [art.ucalgary.ca/graduate](http://art.ucalgary.ca/graduate)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website at <http://ucalgary.ca/future-students/graduate/explore-programs/art-master-fine-arts-thesis-based>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A four-year Bachelor of Fine Arts degree or equivalent qualification.
- A portfolio of 20 images of recent work submitted as a single PDF file. Up to five minutes of video documentation may be submitted as links within this document.
- A written statement (no more than 1000 words) of research intent.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

The program core for all Master of Fine Arts students is a minimum of 24 units. Within the first twelve months of the program each student must complete 6 units of 600-level studio course; 6 units of 600-level graduate seminar and Art 605. Three units of 600-level graduate seminar and 6 units of 600-level studio course must be completed in the second twelve months of the program. In some circumstances, the Department may require a student to complete more than the mandatory 24 units.

Typical course sequence is the following:

Year 1:

#### Complete ALL of the following Courses:

- ART605 - Critical Study and Research  
**AND** ART609 - Art Theory and Criticism  
**AND** ART611 - Research Methods in Art  
**AND** ART661.01 - Advanced Studio Practice I  
**AND** ART661.02 - Advanced Studio Practice II

Year 2:

**Complete ALL of the following Courses:**

- ARHI615 - Conference Course in Art History  
**AND** ART661.03 - Advanced Studio Practice III  
**AND** ART661.04 - Advanced Studio Practice IV

**Additional Comments:**

#### **Additional Program Requirements**

##### **Type**

Completion Requirement

**Additional Comments:**

#### **Flexible Grade Option (CG Grade)**

The department of Art will not permit the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### **Time Limit**

Expected completion time for the Master of Fine Arts degree is two years. Maximum completion time is four years.

#### **Supervisory Assignments and Required Examinations**

##### **Type**

Completion Requirement

**Additional Comments:**

#### **Supervisory Assignments**

Each new student is assigned an interim advisor to assist in the planning of the academic program and in orienting the student to the Department's physical and academic resources. A permanent supervisor is appointed by January 1 of the first academic year of registration. The approval of a permanent supervisor, by the Graduate Program Director, is made after consultation with the student. Supervisors work closely with students in all phases of the program; they have the principal responsibility in assessing the student's performance, and advising the Department Head of the student's progress.

Once the student has finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and one internal or external member. If the student has a co-supervisor, then one additional member is still required. See Supervision for more information.

#### **Required Examinations**

##### **Thesis Examination**

Final thesis oral examinations are open. In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must submit their applications to the Department of Art by January 15.

## Overview

### General Program Information

**Graduate Certificates in Social Work** serve as stand-alone credentials for practicing social workers who seek formal professional development opportunities in their field or provide practicing social workers a flexible option to pursue the MSW degree.

Students may complete a given certificate only once. Repeating the same certificate is not permitted. Not all Graduate Certificates and specializations are offered every year. For availability, consult the Faculty of Social Work [website](#).

### Program Delivery

The certificates are completed full-time and courses are offered by distance (online) learning. Most require virtual and/or in-person residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Note: International students admitted to a Graduate Certificate with a mandatory in-person campus residency must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program.

### Laddered Pathway from Graduate Certificates to MSW

Students who complete the Graduate Certificate in Advanced Social Work Practice (ASWP) and one of: **GCERT Clin**, **GCERT Inte** or **Social Wor** may apply to the Master of Social Work (course-based) program. See [LADMSWCB](#).

Email address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage at <https://grad.ucalgary.ca/future-students/explore-programs/social-work-msw-course>.

Students who wish to complete two successive certificates through a laddered pathway into the MSW (course-based) degree must apply to each certificate and the MSW (a total of three applications) and will receive each credential upon its successful completion.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized\* institution. The degree must be awarded prior to the start of the Graduate Certificate.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council of Social Work Education (CSWE), and international credentials deemed equivalent to a Canadian BSW degree by the Canadian*

*Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) For applicants required to present proof of proficiency in English: a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

**Note:** Once admitted, students are not permitted to switch specializations within the chosen certificate. Requests to defer an offer of admission are not normally considered.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

The Graduate Certificate consists of 12 units of coursework. Course requirements are determined by the specialization.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) is not awarded toward a graduate certificate.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work will allow students in the Graduate Certificates in Social Work to pursue the [Flexible Grade Option \(CG Grade\)](#) for graduate courses offered by the Faculty. Students may receive a grade of CG only once, for a total of 3 units, regardless of the number of graduate certificates they complete. In addition, students may receive a grade of CG only once throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's

degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Time Limit

The expected completion time is eight months for any of the graduate certificates. Maximum completion time is two years.

Students taking graduate certificates as part of the laddered pathway to the MSW (course-based) degree program must apply to ladder into the MSW within five years from the start of their first graduate certificate in the laddering sequence.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students enrolled in a Graduate Certificate in Social Work are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The DBA is a full-time, doctoral program that allows senior-level professionals to complete the degree while continuing their career. The program provides flexibility, with in-person learning complimented with online learning sessions. It combines graduate-level courses with a rigorous research component, including a thesis, based on independent inquiry developed under the guidance of a supervisor assigned during the first 12 months of the program.

Location: Scurfield Hall, Room 333

Phone: 403.220.5685

Email address: [dbarequest@haskayne.ucalgary.ca](mailto:dbarequest@haskayne.ucalgary.ca)

Web page URL: <https://haskayne.ucalgary.ca/programs/dba>

## Admissions

### Program Admissions Information

See the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/management-dba>.

In addition to the Faculty of Graduate Studies requirements for [Admission](#), the program requires:

- a) At least 10 years of management experience, including seven years at the senior management or executive level, or at least five years' experience as lecturer/instructor in a relevant field in a college or university program.
- b) A post-baccalaureate degree (e.g., MBA or relevant business-focused Master's degree) from a recognized institution with a minimum grade point average of 3.50 on a four-point scale. Students presenting credentials in an area other than business may be required to complete a qualifying period to gain a general business background before beginning the regular doctoral course requirements.

- c) Students who do not present an MBA or other master's degree from a recognized postsecondary institution may be considered for admission. Exceptional candidates with a four-year bachelor's degree (i.e, a GPA of 3.50 or higher) who have substantial managerial experience will also be considered. Consult the DBA Program Director for further information.
- d) For those students required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test), or a minimum IELTS Academic score of 7.5, or a minimum CAEL score of 70 with a minimum of 70 in each component, or a minimum PTE score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- e) Current CV.
- f) Three reference letters from professionals or academics who are knowledgeable about the applicant's career. References from personal friends or relatives will not be accepted.
- g) Completion of a series of essays including a personal statement outlining objectives, intent and commitment to a research program. Additional details can be found [here](#).
- h) Availability of a research-active supervisor and resources for the area in which the student wishes to study.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the DBA program with an online non-refundable deposit of \$3,000.

The deposit will be credited toward tuition fees upon registration.

### Program Details

#### Simple Requisites

##### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the program requires a minimum of 24 units. Twenty-one of these are from seven core courses required of all students. In addition, students fulfill 3 units from one elective course. Typically, students will complete the minimum of 24 units over the first 18 months of the program.

a) 21 units of core courses:

##### Complete ALL of the following Courses:

- MGST703 - Philosophy of Science for Business Administration  
**AND** MGST705 - Introduction to Research  
**AND** MGST707 - Research Development and Design  
**AND** MGST709 - Qualitative Research Methods  
**AND** MGST711 - Quantitative Design and Analysis  
**AND** MGST714 - Engaged Scholarship and the Use of Evidence  
**AND** SGMA707 - Advanced Strategic Management Tools

b) 3 units chosen from:

##### Earn at least 3 credits from the following:

- MGST746 - Topics in Business Management  
**OR** MGST748 - Topics in Advanced Business Management

##### Additional Comments:

Attendance at an orientation session is expected for all incoming DBA students.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit may be given on a case-by-case basis, with approval of the DBA Director.

### Flexible Grade Option (CG Grade)

Students admitted to the Doctor of Business Administration program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Typically, students are expected to complete the degree in four years. Students have a maximum of six years from the start of their program to complete all degree requirements.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Doctoral students are required to have secured a permanent supervisor within the first 12 months of their program. A supervisory committee reflective of the student's research interests is required within three months after the permanent supervisor has been approved.

### Required Examinations

#### Candidacy

To be admitted to candidacy, doctoral students must successfully complete a written field of study examination and an oral examination on the thesis proposal. For complete details of the candidacy requirements, see the DBA Candidacy Requirements document at <https://haskayne.ucalgary.ca/sites/default/files/DBA/DBA-Curriculum.pdf>.

Students whose research involves human subjects must receive approval from the Haskayne School of Business and from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

### Thesis Examination

Students will complete an oral thesis examination at the end of their program. The student presentation portion of the thesis examination is public. In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Biological Anthropology to students registered in an existing graduate program. The student will receive the degree offered by the home program:

- Doctor of Philosophy (PhD)
- Master of Science (MSc), thesis-based
- Master of Arts (MA), thesis-based

Given the limited resources, the specialization may, in any year, admit fewer applicants than those who are qualified to undertake graduate studies.

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Location: Earth Sciences 852

Program number: 403.220.2665

Fax: 403.282.9562

Email address: <mailto:wwilson@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/anthropology-archaeology/future-students/graduate/programs/biological-anthropology>

## Admissions

### Program Admissions Information

The deadlines for the submission of complete applications is January 15 for September admission and funding.

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In addition to Faculty of Graduate Studies [admission](#) requirements, all applicants must meet the minimum standards of the home program. Admission to the specialization requires:

- a) A Bachelor of Arts or Bachelor of Science degree (and Master of Arts degree for admission to the PhD program) in Anthropology, Archaeology, Biology, Zoology, Ecology, or Health Sciences with a GPA of at least 3.30 on a four-point scale in the last two years of program or over the last 60 units.
- b) An example of the applicant's written work: a term paper, research paper, Master of Arts, or honours thesis that the applicant considers representative of their best work. Published work authored by the applicant is also acceptable provided the applicant is the sole or senior author.
- c) A concise statement setting forth the applicant's academic interests and reasons for wishing to pursue graduate work in the specialization. The area of thesis research should also be specified.
- d) An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies ([see regulations](#)) and the home program requirements, the Specialization requires:

### Master of Arts / Master of Science

- a) Fifteen units, which shall include:

- [ARKY617 Theory & its Appl in Biol Anth](#)

- [ANTH603 Thesis Development](#)
- Any two of the following: [MDSC755 Directed Study](#), [ARKY613 AnalysisOfHumanSkeletalRemain](#), [ANTH635 Primatological Theory](#), [ANTH605 Prof Skills ForAnthropologists](#), or [ANTH613 IssuesMethodology&Primatology](#)

b) One optional course relevant to the proposed research topic.

c) All students are expected to have proficiency in statistics. The supervisor and two other faculty members of the specialization, in concert with the applicant, will determine if additional course work is needed in statistics, depending upon the applicant's background and proposed research area.

d) A season of field work offering appropriate experience for the proposed research (for example, primate field study, archaeological excavation, or field research in human biology), to be approved by the supervisor. However, students specializing in laboratory-based topics (for example, morphological studies or bone chemistry) may substitute an approved program of laboratory work for the field work requirement.

## Doctor of Philosophy

a) Course Requirements:

If students entering the PhD specialization have completed the master's specialization in Biological Anthropology, or if they have completed equivalent courses in another master's program, they will not be required to repeat those courses. Rather, additional courses will be determined at the discretion of the student's supervisory committee. Normally, 18 units, which shall include (unless completed previously):

- [ARKY617 Theory & its Appl in Biol Anth](#)
- [ANTH701 Independent Studies](#)
- Any two of the following: [MDSC755 Directed Study](#), [ARKY613 AnalysisOfHumanSkeletalRemain](#), [ANTH635 Primatological Theory](#), [ANTH605 Prof Skills ForAnthropologists](#), or [ANTH613 IssuesMethodology&Primatology](#)
- Two courses relevant to the proposed research topic

The number of courses required of each student may vary according to their particular needs as determined by the Supervisory Committee. Statistics will be required in the event the student's committee deems it necessary. The courses will be selected based on the student's previous statistics training and the type of data analyses to be conducted in the research.

b) Two seasons of fieldwork offering appropriate experience for the proposed research topic (for example, primate field study, archaeological excavation, or field research in human biology), to be approved by the supervisor. Fieldwork may have been undertaken before entry into the specialization and may be counted toward the fieldwork requirement. Students specializing in laboratory-based topics (for example, morphological studies or bone chemistry) may substitute an approved specialization of laboratory work for the fieldwork requirement.

c) Submission to the supervisory committee of a paper that demonstrates an ability to research and write a paper at a professional level.

d) Proficiency in a second language.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Credit for Undergraduate Courses

Students may apply for no more than one 500-level course for graduate credit, subject to the approval of the Program Director. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

## Time Limit

Expected completion time for the MA and MSc is two years and maximum completion time is four years.

Expected completion time for the PhD is four years and maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students will be assigned a supervisor upon admission.

## Research Proposal Requirements

Within twenty months of entering the program, the student, with the supervisor's advice, develops a thesis research proposal. This is then transmitted to the student's supervisory committee for agreement and to the Graduate Program Director of the student's home program for approval and placed on file.

## Required Examinations

Final thesis oral examinations are open.

## Oral Candidacy Examinations

Following the completion of all course work, the research paper and the language requirement, doctoral students sit the Candidacy Examination. In the Biological Anthropology Graduate Specialization, the Candidacy Examination consists of two parts in sequence, as follows: (1) a written component and (2) an oral component.

The oral candidacy examination is required by University regulations and must be held no later than twenty-eight months following initial registration as a full-time graduate student in a PhD program. Students entering the doctoral program with a bachelor's degree, or transferring into a doctoral program from a master's program before the master's program is completed, must attempt the candidacy examinations no later than 36 months after initial registration in the Faculty of Graduate Studies.

The Candidacy Examination in the Biological Anthropology Graduate Specialization consists of a written plus an oral examination administered by the Candidacy Examination Committee, composed of the Supervisory Committee plus two additional members, one of whom must be external to the Specialization if the External is not already a member of the Supervisory Committee.

The Candidacy Examination is an examination of the student's knowledge and abilities to reason, utilize the relevant literature, and to solve problems within the three fields or areas which have been set out.

In consultation with the student, the Supervisory Committee will determine three areas of knowledge for which the student will be responsible in their Candidacy Examination. These topics will be communicated (in writing) to the student, with copies to other members of the Supervisory Committee.

These topics will also be communicated to the two other members of the Candidacy Examination Committee, who must be selected no later than eight weeks prior to the oral examination.

Members of the Candidacy Examination Committee will each submit one or two questions, so that there are at least two questions within each of the three areas. The supervisor will select six questions from those submitted, and provide them to the student at least five weeks prior to the Oral Candidacy Examination. The student will select one question from each of the three areas for a total of three questions. The student will have two weeks in which to prepare answers to these questions as a take-home, open-book exam. Each answer should be approximately 6000 words. Copies of the completed examination will be distributed to all members of the Examination Committee. The Committee will assess the written exam on a Pass/Fail basis. The oral examination is conducted in accordance with Faculty of Graduate Studies regulations.

In the oral component of the Candidacy Examination, the written examinations will serve as the basis from which the examination shall proceed, but examiners are not limited to the written component in framing the questions asked, and questioning may range into cognate areas, at the discretion of the Neutral Chair.

Students must pass both the written and oral exams in order to pass the candidacy exam.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the home program by January 2.

## Overview

### General Program Information

Students can complete the Haskayne MBA through full-time study either through the daytime or the evening.

### MBA Specializations:

- Business Intelligence and Data Analytics
- Entrepreneurship and Innovation
- Finance
- Global Energy Management and Sustainable Development
- Management Analytics
- Marketing
- Project Management
- Real Estate Studies

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the program requires:

a) A current résumé.

b) A 250-word response to each of two questions provided as part of the application process.

c) For applicants required to prove present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20 (Internet-based test), or an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum overall grade of "A-".

## UCalgary

d) The Graduate Management Admission Test (GMAT) is only required for applicants with a degree (from an institution outside of Canada or the United States) with a recommended minimum score of 550 or an equivalent Graduate Record Examination (GRE) score.

Applicants with a degree from an institution in Canada or the United States with a grade point average (GPA) of at least 3.0 on a four-point scale are exempt from submitting a GMAT score. An applicant who has completed a bachelor's degree from an institution in Canada or the United States with a GPA from 2.50 to 2.99, and chooses to submit a GMAT score, may be admitted to an MBA course-based program as a regular student on the basis of the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150$ .

*\*Consult the Haskayne School of Business about the Graduate Management Admission Test.*

e) Two reference letters.

f) For the course-based Day and Evening MBA program only, the equivalent of at least 2 years of appropriate work experience.

g) Applicants may be required to participate in an interview.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the MBA program with an online non-refundable deposit:

Daytime MBA: \$3,000

Evening MBA: \$3,000

Accelerated MBA: \$3,000

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the requirements of the Faculty of Graduate Studies, the Haskayne School of Business requires:

The MBA degree normally consists of 60 units. Students may be granted exemption from required courses based upon prior academic preparation and with the approval of the Graduate Director (MBA Program). Students must complete a minimum of 45 units, of which a maximum of 15 units may be transfer credit from another recognized graduate program, for the MBA degree.

Students who have completed a recognized/accredited four-year BComm degree within the last 10 years may be granted course exemption from 27 units and required to complete a minimum of 33 units for the MBA degree, of which 3 units may be transfer credit from another recognized graduate program.

For students approved for a BComm exemption, requirements normally will be:

**Complete ALL of the following Courses:**

- ENTI601 - Entrepreneurial Thinking  
**AND** OBHR621 - Advanced Leadership
- MGST615 - Strategic Business Analysis  
**OR** ENTI623 - Creative Destruction Lab - Rockies

plus:

- 24 units of elective courses.

#### Specializations

Students must complete 18 units of additional courses beyond the required courses. Within these 18 units, students may select an area of specialization normally consisting of 12 units. Specialization requirements are as follows:

**Complete ANY of the following Requirement Sets:**

- MBA, Business Intelligence and Data Analytics Specialization
- MBA, Entrepreneurship and Innovation
- MBA, Finance
- MBA, Global Energy Management and Sustainable Development
- MBA, Management Analytics
- MBA, Marketing
- MBA, Project Management
- MBA, Real Estate Studies

Students who elect not to choose an area of specialization may choose instead from various graduate courses offered by the Haskayne School of Business. Subject to the approval of the Graduate Director (MBA Program) and the Faculty of Graduate Studies, graduate courses offered at the University of Calgary outside the Haskayne School of Business may also be taken.

**Additional Comments:**

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the MBA (course-based) program, Executive MBA program or Executive MBA Specializing in Global Energy program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

The day MBA option normally takes 20 months to complete (from first registration), while the evening option normally takes three years. Maximum time limit: six years.

**Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

## General Program Information

Web page URL: <https://haskayne.ucalgary.ca/graduate-certificate-in-business-intelligence-data-analytics>

## Admissions

### Program Admissions Information

The closing dates for applications are available on the website: <https://haskayne.ucalgary.ca/graduate-certificate-in-business-intelligence-data-analytics>

In addition to the Faculty of Graduate Studies [admission](#) requirements, all applicants must meet the following requirement:

- A Master of Business Administration or Master of Management or equivalent Graduate degree from a recognized/accredited post-secondary institution.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into a Graduate Certificate program with an online non-refundable deposit of \$500.

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business requires:

The Certificate requires 12 units of coursework consisting of:

**Complete ALL of the following Courses:**

- BIMA610 - Data Management and Business Analytics  
**AND** BIMA611 - Enterprise Analysis  
**AND** BIMA612 - Data Analytics I  
**AND** BIMA613 - Data Analytics II

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

No [Advanced Credit](#) will be considered.

### Flexible Grade Option (CG Grade)

Students admitted to a graduate certificate program will not be allowed to request the **Flexible Grade Option (CG Grade)** option for any course that is applicable to their certificate; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

The expected completion time for the graduate certificates is 8 months. The maximum completion time is 3 years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

No financial assistance is available for the graduate certificate programs.

## Overview

### General Program Information

#### Specializations:

- Biochemistry
- Biophysical Chemistry
- Cell Biology
- Developmental Biology
- Ecology
- Environmental Microbiology
- Evolutionary Biology
- Molecular Microbiology
- Physiology
- Structural Biology
- Host-Pathogen Interactions
- **Energy&Env**

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/biological-sciences/future-students/graduate/programs>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/biological-sciences-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies **admission** requirements and the Faculty of Science requirements, the Department requires:

- a) A minimum grade point average of 3.20 on a four-point scale during the last two full years or equivalent.
- b) For students required to provide proof of proficiency in English: a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; a CAEL score of 70 (with a minimum of 70 in each component); a Duolingo score of 145 (with no subscore below

125); or a Cambridge Proficiency score of 105. This requirement can also be met by completing the Academic Communication Certificate (<https://ucalgary.ca/esl/acc>) with a minimum grade of "A-" in each course.

- c) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- d) Three academic reference letters and the required reference form.

Exceptional students may apply to a PhD program without an MSc recognized by the Faculty of Graduate Studies. In such cases, requirements in addition to those outlined above include: a four-year BSc or equivalent degree from a recognized institution with a minimum GPA of 3.60 (four-point scale) during the last two full years; and a full-year research project with a minimum grade of 3.70.

Transfer from a MSc to a PhD program is allowed for students who have successfully completed all courses required for the MSc degree, and who have demonstrated outstanding research ability and potential to their Supervisory Committee. Normally, evidence of this ability will include, but not be limited to, a grade point average of 3.60 for the courses completed during the MSc program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and the Faculty of Science requirements, the Department requires:

- a) Completion of a minimum of 6 units for both the Master of Science and doctoral programs. Students transferring from the MSc program to the PhD program will be required to take a minimum of 3 units in addition to work already completed. Please note that graduate courses must be chosen in consultation with the supervisor and approved by the Graduate Program Director. Course requirements may include courses offered by other Departments.
- b) Completion of the appropriate number of **Biology 601** Research Seminar courses in addition to (a) above.
- c) Presentation of a Departmental Pre-Defence seminar on the results of the thesis research.

#### Transfer from the Master of Science to the doctoral program

A request to transfer from the Master of Science program to the doctoral program may be made no later than twenty-four months after initial registration. Students who transfer will be required to take one additional 3-unit course, regardless of course work completed before the transfer, and are expected to meet the 36-month deadline for completion of candidacy requirements.

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Biological Sciences will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At least one-half of a graduate student's coursework must be at the 600 level or higher.

Only when appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses. Courses below the 500 level will not be accepted for graduate credit.

## Time Limit

Expected completion time is two years for the Master of Science degree. Maximum completion time is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Applicants must contact faculty members directly regarding supervision of their graduate program, prior to submitting an application. The Department does not accept students unless at least one faculty member has indicated a willingness to act as supervisor. For the MSc program, the supervisor, in consultation with the student, selects a Supervisory Committee consisting of the supervisor and at least two other faculty members whose research experience will be beneficial to the student's graduate program.

### Research Proposal

Master of Science students must present a written research proposal to their supervisory committee no later than six months after initial registration in program.

### Thesis Examinations

Final Thesis Examinations are required at both the Master of Science and doctoral level. In addition to the Faculty of Graduate Studies [regulations](#), the Department has the following requirements:

A public "Exit" Seminar preceding the examination is required.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for the Open Scholarship Competition must submit their scholarship applications to the Department of Biological Sciences by the appropriate deadline. Please contact <mailto:sci.grad@ucalgary.ca> for further information.

## Overview

### General Program Information

#### Specializations:

- Biochemistry
- Biophysical Chemistry
- Cell Biology
- Developmental Biology
- Ecology
- Environmental Microbiology
- Evolutionary Biology
- Molecular Microbiology
- Physiology
- Structural Biology
- Host-Pathogen Interactions
- **Energy&Env**

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Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/biological-sciences/future-students/graduate/programs>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/biological-sciences-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies' [admission](#) requirements and Faculty of Science requirements, the Department requires:

- a) A minimum grade point average of 3.20 on a four-point scale during the last two full years or equivalent.
- b) For students required to provide proof of proficiency in English: a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; a CAEL score of 70 (with a minimum of 70 in each component); a Duolingo score of 145 (with no subscore below 125); or a Cambridge Proficiency score of 105. This requirement can also be met by completing the Academic Communication Certificate (<https://ucalgary.ca/esl/acc>) with a minimum grade of "A-" in each course.
- c) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- d) Three academic reference letters and the required reference form.

Exceptional students may apply to a PhD program without an MSc recognized by the Faculty of Graduate Studies. In such cases, requirements in addition to those outlined above include: a four-year BSc or equivalent degree from a recognized institution with a minimum GPA of 3.60 (four-point scale) during the last two full years; and a full-year research project with a minimum grade of 3.70.

Transfer from a MSc to a PhD program is allowed for students who have successfully completed all courses required for the MSc degree, and who have demonstrated outstanding research ability and potential to their Supervisory Committee. Normally, evidence of this ability will include, but not be limited to, a grade point average of 3.60 for the courses completed during the MSc program.

## Program Details

### Simple Requisites

Program/Course Requirements
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## Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

- a) Completion of a minimum of 6 units for both the Master of Science and doctoral programs. Students transferring from the MSc program to the PhD program will be required to take a minimum of 3 units in addition to work already completed. Please note that graduate courses must be chosen in consultation with the supervisor and approved by the Graduate Program Director. Course requirements may include courses offered by other Departments.
- b) Completion of the appropriate number of Biology 601 Research Seminar courses in addition to (a) above.
- c) Presentation of a Departmental Pre-Defence seminar on the results of the thesis research.

Transfer from the Master of Science to the doctoral program

A request to transfer from the Master of Science program to the doctoral program may be made no later than twenty-four months after initial registration. Students who transfer will be required to take one additional 3-unit course, regardless of course work completed before the transfer, and are expected to meet the 36-month deadline for completion of candidacy requirements.

## Additional Comments:

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

## Flexible Grade Option (CG Grade)

Students admitted to the Department of Biological Sciences will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At least one-half of a graduate student's coursework must be at the 600 level or higher.

Only when appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses. Courses below the 500 level will not be accepted for graduate credit.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

## Additional Comments:

## Supervisory Assignments

Applicants must contact faculty members directly regarding supervision of their graduate program, prior to submitting an application. The Department does not accept students unless at least one faculty member has indicated a willingness to act as supervisor. For the PhD program, the supervisor, in consultation with the student, selects a Supervisory Committee consisting

of the supervisor and at least two other faculty members whose research experience will be beneficial to the student's graduate program.

## Research Proposal

Doctoral students must complete a written thesis proposal no later than twelve months after initial registration in the program. The proposal will be evaluated in a supervisory committee meeting. See [handbook](#) for further information about the proposal requirements and evaluation process.

## Required Examinations

### Candidacy

Doctoral students must pass oral and written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see [handbook](#).

### Thesis Examinations

Final Thesis Examinations are required at both the Master of Science and doctoral level. In addition to the Faculty of Graduate Studies [regulations](#), the Department has the following requirements:

A public "Exit" Seminar preceding the examination is required.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for the Open Scholarship Competition must submit their scholarship applications to the Department of Biological Sciences by the appropriate deadline. Please contact <mailto:sci.grad@ucalgary.ca> for further information.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Biostatistics at the master's and doctoral levels through the following Faculties and graduate programs:

- Cumming School of Medicine; Community Health Sciences
- Faculty of Science; Mathematics and Statistics

The student will receive the degree offered by the home program:

- [MTSTMSCT](#)
- [MDCHMSCT](#)
- [MTST PhD](#)
- [MDCHPHD](#)

Department of Mathematics and Statistics:

# UCalgary

Location: Math Sciences Building, Room 462

Program number: 403.220.6299

Fax: 403.282.5150

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Department of Community Health Sciences:

Location: Health Sciences Centre, Room G345C

Program number: 403.210.7051

Fax: 403.210.8109

Email address: <mailto:chsgrad@ucalgary.ca>

Web page URL: [https://cumming.ucalgary.ca/gse/about/programs/community-health-sciences#quickset-field\\_collection\\_quicktabs\\_1](https://cumming.ucalgary.ca/gse/about/programs/community-health-sciences#quickset-field_collection_quicktabs_1)

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Biostatistics Specialization are those of the home graduate program:

- [MTSTMSCT](#)
- [MDCHMSCT](#)
- [MTST PhD](#)
- [MDCHPHD](#)

In addition to the [admission](#) requirements of the Faculty of Graduate Studies and home program requirements, all applicants must meet the following requirements:

- In the case of the MSc Biostatistics Specialization, a bachelor's degree in statistics, or its equivalent, is usually required.
- In the case of the PhD Biostatistics Specialization, a master's degree in statistics, or its equivalent, is usually required.
- Students must also have a letter from a faculty member in the home program indicating an agreement to supervise the applicant. Students are strongly encouraged to approach potential supervisors in advance of applying for entry into the home program and Biostatistics specialization.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and home program requirements, the Specialization requires:

**MSc and PhD students complete:**

**Complete ALL of the following Courses:**

- MDCH600 - Introduction to Community Health Sciences  
**AND** MDCH640 - Fundamentals of Epidemiology  
**AND** STAT721 - Statistical Inference  
**AND** BIST600 - Research Seminar

PhD students must also complete [STAT641 Statistical Learning](#) or [STAT631 Computational Statistics](#).

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List A Epidemiology and Health

Relevant topics courses and directed study courses (e.g., [MDCH710 Adv Topics in Biostatistics](#)), and courses from other programs, may be approved by the graduate program director in consultation with the supervisor.

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List B Biostatistics/Statistics

Relevant topics courses and directed study courses (e.g. [STAT601 Topics Probability&Statistics](#)), and courses from other programs, may be approved by the graduate program director in consultation with the supervisor.

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List A Epidemiology and Health  
**OR** Biostatistics Interdisciplinary Specialization, List B Biostatistics/Statistics

**Additional Comments:**

In addition, PhD students in the Mathematics and Statistics program must pass two Preliminary Examinations in Statistics based on material for two of the following courses: [STAT701 Theory of Probability I](#), [STAT721 Statistical Inference](#), [STAT631 Computational Statistics](#), [STAT635 Generalized Linear Models](#), [STAT641 Statistical Learning](#).

N.B. PhD required courses (or equivalents) are based on courses taken across graduate studies; i.e., if the student has taken equivalent courses in an MSc program, they are not required to retake these courses.

Students in the Community Health Sciences program must attend all CHS departmental seminars.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant should make requests for advanced credit at the time of application, as part of the admissions process. See [Advanced Credit](#) for further information.

**Credit for Undergraduate Courses**

See requirements of home program.

**Flexible Grade Option (CG Grade)**

See requirements of home program.

**Time Limit**

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

The maximum completion time allowed for a thesis-based master's program is four years. The maximum completion time allowed for a doctoral program is six years.

**Supervisory Assignments and Required Examinations**

See requirements of home program and the Faculty of Graduate Studies academic regulations.

## Faculty Members / Research Interests

Faculty members associated with the Biostatistics specialization have wide-ranging research interests. See the [Biostatistics webpage](#) for more information.

Research topics for thesis-based MSc and PhD applicants should be decided in discussion with supervisors.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

See home program.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ualgary.ca>

Web page URL: <https://sapl.ualgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ualgary.ca/future-students/graduate/explore-programs/built-landscape-heritage-certificate-course-based>.

In addition to Faculty of Graduate Studies requirements for [Admission](#), the Certificate requires the following:

#### a) Statement of Interest

A clear, concise and substantive statement of interest (1,000 words), which informs the Admissions Committee of:  
the applicant's reasons for pursuing the Certificate;

how the applicant's specific educational background and professional experience relates to heritage conservation.

#### b) Digital Portfolio

Applicants may submit a portfolio that provides examples of or illustrates the applicant's design work, professional work, research, creative thinking, community action, planning products, or graphics and visual communication. The requirements for digital portfolio submissions are found on the School of Architecture, Planning and Landscape website at:

<https://sapl.ualgary.ca/future-students/graduate>.

#### c) Curriculum Vitae

A current copy of the curriculum vitae/resume.

#### d) Reference Letters

Three reference letters.

## e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); or IELTS score of 7.5; or CAEL overall score of 70, with a minimum score of 70 in each component. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## f) Example of writing

One example of the applicant's previous academic or professional work such as a written essay, published research paper, major academic paper, thesis, design project, or consulting report.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), students are expected to successfully complete 12 units (courses must be taken in the prescribed order):

##### Complete ALL of the following Courses:

- **PLAN660** - Principles of Historic Conservation  
**AND** **PLAN662** - Heritage Conservation Policy and Planning  
**AND** **PLAN664** - Sustainability and Historic Preservation  
**AND** **PLAN668** - Advanced Heritage Conservation Project

#### Additional Comments:

### Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

#### Other Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) is not given.

### Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Students registered in the Graduate Certificate in Built and Landscape Heritage are expected to enrol on a full-time basis and complete the program requirements within one registration year. The maximum completion time is three registration years.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

The curriculum is designed for students with degrees in Engineering, Medicine, Physical Sciences, Kinesiology, Health or Life Sciences. Background experience and qualifications, as well as areas of interest of the applicants will be taken into account at the time of admission.

A Master of Engineering in Biomedical Engineering does not entitle graduates to a designation of Professional Engineer. The title of Engineer, or Professional Engineer, is restricted to those who are members of a Provincial engineering association.

Please see the Biomedical Engineering Graduate Program website for the latest version of the Handbook of Policies and Procedures at <https://research.ucalgary.ca/bme/graduate>.

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Biomedical Engineering program.

Location: ENB202

Program number: 403.220.3835

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/biomedical>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: [Biomedical Engineering - MEng - Course-Based | Faculty of Graduate Studies | University of Calgary \(ucalgary.ca\)](#).

In addition to Faculty of Graduate Studies requirements for [admission](#), the program requires:

- minimum GPA requirements are 3.00 on a four-point scale.
- students must have an approved four-year undergraduate degree in engineering, science, kinesiology or equivalent.

International students are required to demonstrate proficiency in the English language, in accordance with the admission requirements of the Faculty of Graduate Studies. All students must meet the [admission requirements](#) of both the Faculty of Graduate Studies and the Biomedical Engineering Graduate Program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

30 units are required, which include:

##### Enroll in the following Requirement Sets:

- MEng, Course-based, Biomedical Engineering

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Additional Comments:

### Additional Courses

Courses are listed by theme, but students are not restricted to taking courses from within a theme. The supervisor and supervisory committee should be consulted for course selection. Courses not listed under Additional Courses or on the list at <https://schulich.ucalgary.ca/biomedical/programs/graduate/program-resources/courses> require the approval of the Biomedical Engineering Graduate Program. Directed studies courses require approval of the Biomedical Engineering Graduate Program. Not all courses may be offered every year.

- **BMEN609 Anatomy & Phys for BMEN**
- **BMEN619 Advanced Topics in BMEN** (BMEN619.39)

#### *Additional Courses in Theme 1: Human Mobility*

- **BMEN619 Advanced Topics in BMEN**
- **ENCI653 Theory&ApplOfFiniteElemMeth**
- **ENME653 Advanced Continuum Mechanics**
- **ENME663 (Knes/Mdsc 663)Adv Mech & Phys**

#### *Additional Courses in Theme 2: Advanced Biomedical Imaging*

- **ENEL697 Digital Image Processing**
- **MDSC689.01 Medical Imaging Techniques**
- **MDSC689.02 Adv Magnetic Resonance Imaging**
- **MDSC689.03 Adv Medical Image Processing**

#### *Additional Courses in Theme 3: Regenerative Medicine*

- **BMEN619 Advanced Topics in BMEN** (BMEN619.33)
- **ENCH659 Advanced Cell & Tissue Engg**
- **MDSC710 Business & Careers Biotech**
- **VETM702 Adv Topics Stem Cell Biol**

#### *Additional Course in Theme 4: Health Monitoring and Management*

- **BMEN619 Advanced Topics in BMEN** (BMEN619.37)

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

**Advanced Credit** may be granted with approval of the Biomedical Engineering Graduate Program. Advanced credit will not be granted for Biomedical Engineering 600, 602 or 604.

## Time Limit

In accordance with the Faculty of Graduate Studies regulations, the expected completion time for the MEng (course-based) degree is one to two years. Maximum completion time is six years.

The Master of Engineering, course-based with Internship is normally a three-year program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in the MEng (course-based) program do not receive funding, but may be eligible for awards or financial assistance.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- [Medical Im](#)
- [Stem Cell&](#)
- [Wearable T](#)
- [Comp Neuro](#)

The curriculum is designed for students with degrees in Engineering, Medicine, Physical Sciences, Kinesiology, Health or Life Sciences. Background experience and qualifications, as well as areas of interest of the applicants will be taken into account at the time of admission. The appropriateness of the undergraduate preparation of the applicant must be supported by the proposed supervisor(s) for MSc and PhD students. Students in the MSc degree program are normally considered full-time.

A Master of Science in Biomedical Engineering does not entitle graduates to a designation of Professional Engineer. The title of Engineer, or Professional Engineer, is restricted to those who are members of a Provincial engineering association.

Please see the Biomedical Engineering Graduate Program website for the latest version of the Handbook of Policies and Procedures at <https://schulich.ucalgary.ca/biomedical/programs/graduate>.

Location: ENB202

Program number: 403.220.3835

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/biomedical>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/biomedical-engineering-master-science-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the program requires:

- minimum GPA requirements are 3.20 on a four-point scale.
- two reference letters with their application package.
- MSc students can only be accepted upon identification of one or more approved Biomedical Graduate Engineering Program supervisors who are willing to supervise and fund the applicant.
- International students are required to demonstrate proficiency in the English language, in accordance with the admission requirements of the Faculty of Graduate Studies. All students must meet the admission requirements of both the Faculty of Graduate Studies and the Biomedical Engineering Graduate Program.

Transfer of appropriately qualified MSc students directly into the PhD program is encouraged. Students wishing to transfer must do so between 8 and 16 months of first registration. For transfer, a minimum GPA of 3.50 is required (over a minimum of 9 units), including [BMEN600 Biomedical Engg Foundations](#). In addition, a research proposal, approved by the supervisory committee, must be submitted to the Biomedical Engineering Graduate Program. Applications for transfer must be supported by both the supervisor and the supervisory committee.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Additional Comments:

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements:

All students are required to take a minimum of 12 units as approved by the Biomedical Engineering Graduate Program. This must include [BMEN600 Biomedical Engg Foundations](#), [BMEN602 Biomedical Engg Core I](#) and [BMEN604 Biomedical Engg Core II](#) and 6 units from technical electives chosen from the list of Additional Courses.

#### Medical Imaging Specialization

Students complete a course sequence in Medical Imaging plus additional specialization requirements (see [Medical Im](#)). MSc students must take a minimum of 6 units (the MEDI core and a MEDI foundational course). These requirements are in addition to the core program requirements of the BME Graduate Program. The required courses are counted towards BME Graduate Program elective courses.

For Interdisciplinary Specializations see:

- [Medical Im](#)
- [Stem Cell&](#)
- [Wearable T](#)
- [Comp Neuro](#)

#### Additional Courses

Courses are listed by theme, but students are not restricted to taking courses from within a theme. The supervisor and supervisory committee should be consulted for course selection. Courses not listed under Additional Courses or on the list at <https://schulich.ualgary.ca/biomedical> require the approval of the Biomedical Engineering Graduate Program. Directed studies courses require approval of the Biomedical Engineering Graduate Program. Not all courses may be offered every year.

- [BMEN609 Anatomy & Phys for BMEN](#)
- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.39)

#### Additional Courses in Theme 1: Human Mobility

- [BMEN619 Advanced Topics in BMEN](#)
- [ENCI653 Theory&AppIOfFiniteElemMeth](#)

- [ENME653 Advanced Continuum Mechanics](#)
- [ENME663 \(Knes/Mdsc 663\)Adv Mech & Phys](#)

*Additional Courses in Theme 2: Advanced Biomedical Imaging*

- [ENEL697 Digital Image Processing](#)
- [MDSC689.01 Medical Imaging Techniques](#)
- [MDSC689.02 Adv Magnetic Resonance Imaging](#)
- [MDSC689.03 Adv Medical Image Processing](#)

*Additional Courses in Theme 3: Regenerative Medicine*

- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.33)
- [ENCH659 Advanced Cell & Tissue Engg](#)
- [MDSC710 Business & Careers Biotech](#)
- [VETM702 Adv Topics Stem Cell Biol](#)

*Additional Course in Theme 4: Health Monitoring and Management*

- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.37)

#### Additional Program Information

##### Type

Completion Requirement

Additional Comments:

### Advanced Credit

Credit may be granted with approval of the Biomedical Engineering Graduate Program. Advanced standing will not be granted for [BMEN600 Biomedical Engg Foundations](#), [BMEN602 Biomedical Engg Core I](#) or [BMEN604 Biomedical Engg Core II](#).

### Credit for Undergraduate Courses

Graduate credit may be given for 500-level courses. No more than 3 units of credit will be allowed in MSc/PhD program as approved by the supervisory committee, and the Biomedical Engineering Graduate Program.

### Time Limit

In accordance with the Faculty of Graduate Studies regulations, the expected completion time for the MSc is two years. Maximum completion time is four years. Students transferring from the MSc to the PhD program are expected to complete studies within five years. Funding in the MSc and PhD programs may not be available after these expected completion times.

#### Supervisory Assignment and Required Examinations

##### Type

Completion Requirement

Additional Comments:

### Supervisory Assignments

MSc students need a supervisor for admission to the program. The Supervisory Committee should be selected jointly by the student and supervisor immediately upon entry into the MSc program and approved by the Biomedical Engineering Graduate Program. The Supervisory Committee consists of the supervisor, co-supervisor (if appropriate), and two other members who normally hold academic appointment at the University of Calgary. Appointment of individuals who do not hold academic appointments at the University of Calgary is possible but requires the support of the Biomedical Engineering Graduate Program and the prior approval of the Faculty of Graduate Studies.

The supervisory committee will advise on course selection and research topic for the student. The supervisory committee will

usually be cross-disciplinary, as required by the student's research topic and deemed necessary by the supervisor in consultation with the Biomedical Engineering Graduate Program. The supervisory committee will recommend transfer to the PhD program for MSc students. All students will follow the guidelines of the Biomedical Engineering Graduate Program regarding supervision, frequency of committee meetings, course changes, thesis or project proposals, candidacy examinations, etc. as outlined in the Student Handbook. Membership on candidacy and examination committees requires the approval of the Biomedical Engineering Graduate Program.

## Required Examinations

### *Scheduling of the Thesis Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Thesis Examination*

In addition to Faculty of Graduate Studies regulations, the Biomedical Engineering Graduate Program requires the examining committee to consist of a minimum of four voting members: the supervisor (and co-supervisor if appropriate) and Supervisory Committee and one Internal Examiner who may be internal to the student's home program. At least one member of the Supervisory Committee (excluding supervisor and co-supervisor) must be a Biomedical Engineering Graduate Program Approved Supervisor.

The student shall make a public thirty-minute presentation (20 minute presentation plus 10 minutes for questions) of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in the MSc program will not be admitted without funding from an interested supervisor. Please see the Biomedical Engineering Graduate Program handbook for more details.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- [Medical Im](#)
- [Stem Cell&](#)
- [Wearable T](#)
- [Comp Neuro](#)

The curriculum is designed for students with degrees in Engineering, Medicine, Physical Sciences, Kinesiology, Health or Life Sciences. Background experience and qualifications, as well as areas of interest of the applicants will be taken into account at the time of admission. The appropriateness of the undergraduate preparation of the applicant must be supported by the proposed supervisor(s) for MSc and PhD students. Students in the PhD degree program are normally considered full-time.

A Doctor of Philosophy in Biomedical Engineering does not entitle graduates to a designation of Professional Engineer. The title of Engineer, or Professional Engineer, is restricted to those who are members of a Provincial engineering association.

Please see the Biomedical Engineering Graduate Program website for the latest version of the Handbook of Policies and Procedures at <https://schulich.ucalgary.ca/biomedical/programs/graduate>.

Location: ENB202

Program number: 403.220.3835

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/biomedical>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/biomedical-engineering-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the program requires:

- minimum GPA requirement of 3.50 on a four-point scale.
- two reference letters with their application package.
- PhD students can only be accepted upon identification of one or more approved Biomedical Graduate Engineering Program supervisors who are willing to supervise and fund the applicant.
- International students are required to demonstrate proficiency in the English language, in accordance with the admission requirements of the Faculty of Graduate Studies. All students must meet the admission requirements of both the Faculty of Graduate Studies and the Biomedical Engineering Graduate Program.

Transfer of appropriately qualified MSc students directly into the PhD program is encouraged. Students wishing to transfer must do so between 8 and 16 months of first registration. For transfer, a minimum GPA of 3.50 is required (over a minimum of 9 units), including Biomedical Engineering 600. In addition, a research proposal, approved by the supervisory committee, must be submitted to the Biomedical Engineering Graduate Program. Applications for transfer must be supported by both the supervisor and the supervisory committee.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#):

For a Doctor of Philosophy (PhD) degree, all students are required to take a minimum of 6 units as approved by the Biomedical Engineering Graduate Program.

If the student's completed MSc degree is not in Biomedical Engineering, they must take a further of 12 units, for a total minimum of 18 units.

For students who transfer from an MSc program, minimum of 18 units at the graduate level are required beyond the BSc, or equivalent, degree.

**BMEN600 Biomedical Engg Foundations**, **BMEN602 Biomedical Engg Core I** and **BMEN604 Biomedical Engg Core II** must be included in the course requirements if not taken in the MSc.

All students may choose elective courses from the listing of Additional Courses or approved courses from other departments (see website for most recent information: <https://research.ucalgary.ca/bme/graduate>). Other relevant courses, not on the

Additional Course list or Program's website, require the approval of the supervisor and the Biomedical Engineering Graduate Program. Students may be required to take senior undergraduate courses as deemed by their Supervisory Committee, but graduate credit will only be granted for senior undergraduate courses as approved by the Biomedical Engineering Graduate Program.

For Interdisciplinary Specializations see:

- [Medical Im](#)
- [Stem Cell&](#)
- [Wearable T](#)
- [Comp Neuro](#)

In addition to the course requirements, all PhD students are required to complete a research project and to submit a written thesis in compliance with the regulations of the Faculty of Graduate Studies.

## Additional Courses

Courses are listed by theme, but students are not restricted to taking courses from within a theme. The supervisor and supervisory committee should be consulted for course selection. Courses not listed under Additional Courses or on the list at <https://research.ualgary.ca/bme/graduate> require the approval of the Biomedical Engineering Graduate Program. Directed studies courses require approval of the Biomedical Engineering Graduate Program. Not all courses may be offered every year.

- [BMEN609 Anatomy & Phys for BMEN](#)
- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.39)

### *Additional Courses in Theme 1: Human Mobility*

- [BMEN619 Advanced Topics in BMEN](#)
- [ENCI653 Theory&AppOfFiniteElemMeth](#)
- [ENME653 Advanced Continuum Mechanics](#)
- [ENME663 \(Knes/Mdsc 663\)Adv Mech & Phys](#)

### *Additional Courses in Theme 2: Advanced Biomedical Imaging*

- [ENEL697 Digital Image Processing](#)
- [MDSC689.01 Medical Imaging Techniques](#)
- [MDSC689.02 Adv Magnetic Resonance Imaging](#)
- [MDSC689.03 Adv Medical Image Processing](#)

### *Additional Courses in Theme 3: Regenerative Medicine*

- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.33)
- [ENCH659 Advanced Cell & Tissue Engg](#)
- [MDSC710 Business & Careers Biotech](#)
- [VETM702 Adv Topics Stem Cell Biol](#)

### *Additional Course in Theme 4: Health Monitoring and Management*

- [BMEN619 Advanced Topics in BMEN](#) (BMEN619.37)

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Credit may be granted with approval of the Biomedical Engineering Graduate Program. Advanced credit will not be granted for [BMEN600 Biomedical Engg Foundations](#), [BMEN602 Biomedical Engg Core I](#) or [BMEN604 Biomedical Engg Core II](#).

## Credit for Undergraduate Courses

Graduate credit may be given for 500-level courses for MSc/PhD students. No more than 3 units of credit will be allowed as approved by the supervisory committee, and the Biomedical Engineering Graduate Program.

## Time Limit

In accordance with the Faculty of Graduate Studies regulations, the expected completion time for the PhD is four years. The maximum completion time is six years. Students transferring from the MSc to the PhD program are expected to complete studies within five years. Funding in the MSc and PhD programs may not be available after these expected completion times.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

PhD students need a supervisor for admission to the program. The Supervisory Committee should be selected jointly by the student and supervisor immediately upon entry into the PhD program and approved by the Biomedical Engineering Graduate Program. The Supervisory Committee consists of the supervisor, co-supervisor (if appropriate), and two other members who normally hold academic appointment at the University of Calgary. Appointment of individuals who do not hold academic appointments at the University of Calgary is possible but requires the support of the Biomedical Engineering Graduate Program and the prior approval of the Faculty of Graduate Studies.

The supervisory committee will advise on course selection and research topic for the student. The supervisory committee will usually be cross-disciplinary, as required by the student's research topic and deemed necessary by the supervisor in consultation with the Biomedical Engineering Graduate Program. The supervisory committee will recommend transfer to the PhD program for MSc students and certify the background preparation for PhD students prior to scheduling of the candidacy exam. All students will follow the guidelines of the Biomedical Engineering Graduate Program regarding supervision, frequency of committee meetings, course changes, thesis or project proposals, candidacy examinations, etc. as outlined in the Student Handbook. Membership on candidacy and examination committees requires the approval of the Biomedical Engineering Graduate Program.

## Research Proposal Requirements

Doctoral students must submit a written thesis proposal, which is approved by their Thesis Proposal Evaluation Committee in a Thesis Proposal Evaluation Committee Meeting. See <https://schulich.ucalgary.ca/biomedical/programs/graduate/program-resources/completion-requirements> for further information.

## Doctoral Candidacy Examinations

Doctoral students must pass Thesis Proposal (oral and written) and Field of Study (oral) examinations. For complete details of the examination format and other candidacy requirements, see <https://schulich.ucalgary.ca/biomedical/programs/graduate/program-resources/timelines>.

### *Scheduling of the Thesis Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## Doctoral Thesis Examination

The examining committee consists of a minimum of five voting members: the Supervisory Committee members (including the supervisor and co-supervisor, if appropriate), one Internal Examiner and one member external to the University of Calgary (External examiner). The Internal Examiner can be an approved Biomedical Engineering Graduate Program Supervisor. At least one of either a) the Supervisory Committee (excluding supervisor and co-supervisor) or b) the Internal Examiner, must be a Biomedical Engineering Graduate Program Approved Supervisor.

The student shall make a public 60 minute presentation (45 minute presentation plus 15 minutes for questions) of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students in the PhD program will not be admitted without funding from an interested supervisor. Please see the Biomedical Engineering Graduate Program handbook for more details.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Graduate Programs in Education offers a Graduate Certificate: Bridge to Teaching for foreign-trained, experienced teachers who require additional advanced course credits in order to teach in K-12 schools in Alberta. Bridge to Teaching is a full-time program with 18 graduate course credits in education, including practicum. All courses need to be taken in a prescribed sequence, over one school year (September to April). For additional information please consult: <http://werklund.ucalgary.ca/gpe/>.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll-free in Canada 877.623.0292

Fax: 403.282.3005

Email address: [mailto:bridge@ucalgary.ca](mailto:mailto:bridge@ucalgary.ca)

Web page URL: <https://werklund.ucalgary.ca/gpe/bridge>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage at: <http://ucalgary.ca/future-students/graduate/explore-programs/bridge-teaching-certificate-course-based>.

Requirements for admission to the Certificate include:

- A four-year baccalaureate degree in Education or an equivalent degree from a recognized institution, with a grade point average of at least 3.00 or equivalent. See the Faculty of Graduate Studies' International Admission Requirements webpage at <http://www.ucalgary.ca/future-students/graduate/international> for specific country requirements.
- A letter from an evaluator at Alberta Education's Teaching Excellence and Certification. For further information, go to <https://alberta.ca/teaching-in-alberta.aspx>.
- For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code **0813**.

- d) One official transcript from all post-secondary institutions attended.
- e) A written 300-word statement of intent that includes answers to the following questions:
  - Please identify your reasons for applying to the Bridge to Teaching program.
  - In what way is this program related to your desired career path or employment objectives?
- f) Two references – References are submitted directly through the online application system.
- g) A successful interview with the Academic Co-ordinator for Bridge to Teaching.

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

##### Completion Requirement

A total of 18 course credits including 10 weeks of practicum.

Semester 1 Required Courses:

**Complete ALL of the following Courses:**

- EDBT601 - Contemporary Education  
**AND** EDBT602 - Teaching in Alberta I  
**AND** EDBT603 - Practicum Support Seminar I

Semester 2 Required Courses:

**Complete ALL of the following Courses:**

- EDBT604 - Learning with Technology  
**AND** EDBT605 - Teaching in Alberta II  
**AND** EDBT606 - Practicum Support Seminar II

#### Additional Comments:

##### Notes:

- Failure to attend the term to which a student has been admitted will result in the admission being rescinded.
- Failure to successfully complete any component of the program, including practicum, will result in withdrawal from the program.

##### General Notes:

- Completion of the Bridge to Teaching Certificate may not fulfill the requirements for teacher certification in Alberta.
- The Bridge to Teaching courses are recognized by the Teaching Excellence and Certification Branch of Alberta Education as fulfilling the requirements for 18 credits in Education coursework at the advanced level, and 10 weeks of supervised student teaching placement (practicum) in an Alberta classroom.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Police Information Check

All successful applicants to the Werklund School of Education are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. Students who are not residents of Calgary must

arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than June 30, and students will be required to request a new Police Information Check every 12 months. The original Police Information Check must be presented to the administration in the Graduate Programs in Education Office in the Werklund School of Education before the start of classes and to the partner school administration on the first day of Practicum (Education Bridge to Teaching 603, 606).

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

Police Information Check is required for all third-party practicum placements. Failure to present a current and clear Police Information Check may result in the student being unable to complete their practica. Successful completion of practica is required for graduation.

Students are obligated to inform the Faculty immediately of any change in status of their criminal record.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Expected completion time is eight (8) months to a maximum completion time of two years.

## Overview

### General Program Information

The MSc program is available for full-time study only.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.chem.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students [website](#).

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- a) A four-year degree or its equivalent.
- b) An admission grade point average of 3.00 or better on a four-point scale.
- c) Two reference letters.

An appropriate letter of recommendation is one written by an individual who can provide an assessment of the applicant's background and capabilities with respect to our department. An applicant currently registered in a graduate degree program, or who has recently completed a graduate degree program, must request one letter of reference from their program supervisor.

- d) For applicants required to prove proficiency in English: a minimum TOEFL score of 97 (Internet-based test), or an IELTS score of 7.0, or a PTE score of 68.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

- 7 units at the 500 level or above:
  - a minimum of 3 units will be Chemistry courses;
  - [CHEM654 Teaching and Mentoring in Chem](#);
  - 3 units of electives (Chemistry or other Faculty/Department)

#### Additional Requirements

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

[Advanced Credit](#) for graduate courses taken as an unclassified student, or qualifying student may be given for courses in which the student obtains a grade of "B" or higher.

A reduction in course requirements may be given for students who completed graduate courses at other institutions. This will be determined on program entry and after consultation with the research supervisor and the graduate office.

### Flexible Grade Option (CG Grade)

The Department of Chemistry will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) with the exception of [Chemistry 601](#) and [603](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

At least one-half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program will graduate credit be given for courses numbered 500-599, which are considered undergraduate courses. In addition to course prerequisites, consent of the department is required.

### Time Limit

Expected completion time is two years for the Master of Science degree. Maximum completion time is four years.

#### Supervisory Assignments and Thesis Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Students are assigned an interim advisor (currently the Graduate Director) upon first registration in a program and must choose a permanent supervisor before the fifth month in program. Students must also choose two additional faculty members to serve as supervisory committee members.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

Before an examination can be scheduled, all members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is normally available to all qualified students in the form of Teaching Assistantships and Trust funded Assistantships. Assistantship funding is not normally available beyond twenty-eight months in a master's program.

For further information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

## Overview

### General Program Information

The PhD program is available for full-time study only.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.chem.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/chemistry-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

a) Two reference letters.

An appropriate letter of recommendation is one written by an individual who can provide an assessment of the applicant's background and capabilities with respect to our department. An applicant currently registered in a graduate degree program, or who has recently completed a graduate degree program, must request one letter of reference from their program supervisor.

b) For applicants required to prove proficiency in English: a minimum TOEFL score of 97 (Internet-based test), or an IELTS score of 7.0, or a PTE score of 68.

**For applicants with a Bachelor of Science (BSc) degree:**

a) A four-year Honours degree or its equivalent.

b) An admission grade point average of 3.70 or better on a four-point scale.

**For applicants with a Master of Science (MSc) degree:**

a) A Master of Science degree recognized by the Faculty of Graduate Studies.

b) An admission grade point average of 3.30 or better on a four-point scale.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

For students entering with a four-year Honours BSc degree or equivalent:

- 10 units at the 500 level or above:
  - a minimum of 6 units will be Chemistry courses;
  - [CHEM654 Teaching and Mentoring in Chem](#);
  - 3 units of electives (Chemistry or other Faculty/Department).

For students entering with an MSc degree or equivalent.

- A minimum of 3 units and a maximum of 10 units. At the discretion of the Graduate Program Director, the number of courses will be determined by consultation between the student, the supervisor, and the Graduate Director.

Students who transfer to the doctoral program will be given credit for courses taken in the MSc program.

#### Copyediting

The department does not allow copyediting in students' theses.

#### Additional Requirements

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

[Advanced Credit](#) for graduate courses taken as an unclassified student, or qualifying student may be given for courses in which the student obtains a grade of "B" or higher.

A reduction in course requirements may be given for students who completed graduate courses at other institutions. This will be determined on program entry and after consultation with the research supervisor and the graduate office.

### Flexible Grade Option (CG Grade)

The Department of Chemistry will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) with the exception of [Chemistry 601](#) and [603](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At least one-half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program will graduate credit be given for courses numbered 500-599, which are considered undergraduate courses. In addition to course prerequisites, consent of the department is required.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are assigned an interim advisor (currently the Graduate Director) upon first registration in a program and must choose a permanent supervisor before the fifth month in program. Students must also choose two additional faculty members to serve as supervisory committee members.

## Required Examinations

### Candidacy

All doctoral students must successfully complete a written thesis research proposal that is evaluated and approved by the Candidacy Field of Study Oral Examination committee.

Doctoral students are required to complete written and oral candidacy examinations. Further details may be obtained from the Department's Handbook of Graduate Studies available

at: [http://www.ucalgary.ca/chem/graduate/current\\_students/grad\\_students\\_handbook](http://www.ucalgary.ca/chem/graduate/current_students/grad_students_handbook).

The oral examination component will include questions on the research proposal.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

Before an examination can be scheduled, all members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is normally available to all qualified students in the form of Teaching Assistantships and Trust funded Assistantships. Assistantship funding is not normally available beyond fifty-two months in a doctoral program.

For further information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

## Overview

# UCalgary

## General Program Information

The MSc is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the MSc program as part-time students only with permission from the CMD Advisory Committee.

## Specializations:

- [Wearable T](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-master-science-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- A curriculum vitae.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

15 units of coursework:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 3-unit Computer Science graduate-level course;
- 3-unit graduate-level course chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music; and
- Two 3-unit graduate-level courses.

Additional courses may be required on a case-by-case basis as determined by the Supervisor and CMD Director.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

### Additional Program Information

#### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

### Time Limit

Expected completion time is two years for the MSc, and maximum completion time is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

**Additional Comments:**

### Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

## Thesis Examination

In addition to the Faculty of Graduate Studies [thesis requirements](#), the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

### General Program Information

The PhD is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the PhD program as part-time students only with permission from the CMD Advisory Committee.

### Specializations:

- [Wearable T](#)

# UCalgary

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- a) While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- b) A master's degree from an accredited/recognized institution.
- c) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- e) Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- f) A curriculum vitae.
- g) Two reference letters.

For exceptional students applying directly to the PhD program with only a bachelor's degree, all the requirements for a Master of Science apply, plus a demonstrated exceptional research and/or creative ability. These direct entry students will be considered on a case-by-case basis.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

Doctoral students must complete at least three graduate-level courses (9 units) while enrolled as a PhD student in Computational Media Design at the University of Calgary.

As agreed upon between the student and supervisory committee, breadth\* courses may be required as follows:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 6 units of Computer Science graduate-level courses;
- 6 units of graduate-level courses chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music.

\*Alternative breadth courses that satisfy the student, the supervisor(s), the supervisory committee, and the CMD Director may be proposed in special cases.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

### Time Limit

Expected completion time for doctoral students entering with a master's degree is four years; maximum completion time is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

Doctoral Supervisory Committee: The Doctoral Supervisory Committee should be constituted by the supervisor and co-supervisor in consultation with the student and must be approved by the CMD Director and sent to the Faculty of Graduate Studies for confirmation. It will consist of the supervisor and co-supervisor, and two additional members. The two additional committee members may be external to the student's program. At least one of the members of the Supervisory Committee should have had supervisory experience at the doctoral level.

## Candidacy

In addition to the Faculty of Graduate Studies [candidacy requirements](#), the program requires:

Doctoral students must complete a written thesis proposal, a written field of study examination, and an oral examination of the thesis proposal. For complete details of the requirements, see the CMD candidacy requirements document available at <https://science.ucalgary.ca/computational-media-design/current-students/degree-requirements>.

## Thesis Examination

In addition to the Faculty of Graduate Studies [thesis requirements](#), the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

The CMD PhD student's External Examiner will be an international expert in the research/creative practice area of the student's research. Faculty of Graduate Studies Conflict of Interest Policy applies (see <https://grad.ucalgary.ca/current-students/thesis-based-students/supervision/conflict-interest>).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [commfilm.ucalgary.ca/graduate](http://commfilm.ucalgary.ca/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/communication-media-studies-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Graduate program in Communication and Media Studies requires:

- A statement of research intent (250-500 words).
- Two samples of written work.
- A detailed curriculum vitae.
- A completed baccalaureate degree in Communications Studies, Culture Studies or related field.
- Two completed Reference Forms.

There is no assurance of consideration for funding for part-time students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Graduate Program in Communication and Media Studies requires the following:

a) Nine units:

**Complete ALL of the following Courses:**

- COMS601 - Interdisciplinary Approaches To Communications Studies  
**AND** COMS613 - Communication Theory  
**AND** COMS615 - Research Methods

b) Nine units of electives.

Three units of the electives may be selected from other graduate programs; 3 units of the electives may be [COMS711 Directed Studies](#), Directed Studies.

Note: Master's students must take 9 units in each of fall and winter terms in the first year of their program to be considered full-time.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit may be granted to students admitted to the MA program. Approval of the Graduate Program Director is required.

### Flexible Grade Option (CG Grade)

The program of Communication and Media studies in the department of Communication, Media and Film will not permit the Flexible Grade Option (CG Grade) for any course that is applicable to their degree.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit for undergraduate courses toward a master's program will be given only in the case of the course being developed for graduate-level work.

### Time Limit

Expected completion time is two years of full-time study or three years of part-time study for the Master of Arts degree.

Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Students are not required to choose a supervisor before they are admitted. An interim advisor is assigned by the program in the first year. The student must choose a thesis supervisor by the beginning of the second year.

### Research Proposal

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

Thesis supervisor must approve proposal.

### Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal or external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on Awards, see the [Awards and Financial Assistance](#) section of this Calendar and [grad.ualgary.ca/awards](http://grad.ualgary.ca/awards).

Students applying for the Graduate Awards Competition must submit their applications to the Department of Communication, Media and Film Graduate Programs Office by January 15.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ualgary.ca>

Web page URL: [commfilm.ualgary.ca/graduate](http://commfilm.ualgary.ca/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ualgary.ca/future-students/graduate/explore-programs/communication-media-studies-doctor-philosophy-thesis-based](http://ualgary.ca/future-students/graduate/explore-programs/communication-media-studies-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Graduate program in Communication and Media Studies requires:

- A statement of research intent (500-1000 words).
- Two samples of written work.
- A detailed curriculum vitae.
- Completed baccalaureate and master's degrees in Communications Studies, Culture Studies, or equivalent.
- Two completed Reference Forms.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Graduate Program in Communication and Media Studies requires the following:

- Nine units:

Complete ALL of the following Courses:

- COMS601 - Interdisciplinary Approaches To Communications Studies  
**AND** COMS615 - Research Methods  
**AND** COMS713 - PhD Theory Seminar

b) Nine units electives.

Three units of the electives may be selected from other graduate programs; 3 units of the electives may be **COMS711 Directed Studies**, Directed Studies.

Note: PhD students who can show that they have taken **COMS601 Interdisc App To Coms Studies** or equivalent may substitute an elective.

**Additional Comments:**

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

**Advanced Credit** may be granted to students admitted to the PhD program. Approval of the Graduate Program Director is required.

**Flexible Grade Option (CG Grade)**

The program of Communication and Media studies in the department of Communication, Media and Film will not permit the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Students in the doctoral program will not be given credit for undergraduate courses.

**Time Limit**

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

**Supervisory Assignments, Research Proposal and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

Students are not required to choose a supervisor before they are admitted. An interim advisor is assigned by the program in the first year. The student must choose a thesis supervisor by the beginning of the second year.

By June of the first year in program, the student must submit their proposed field of research and the name of a proposed supervisor for approval by the program. The supervisory committee must be appointed no later than three months after the appointment of the supervisor.

**Research Proposal**

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

Students must submit a written thesis proposal, which is approved by their Supervisory Committee.  
See [commfilm.ucalgary.ca/candidacy-requirements](http://commfilm.ucalgary.ca/candidacy-requirements) for further information.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for [Candidacy](#) and [Thesis Examinations](#), the Department requires:

### Candidacy

Doctoral students must pass oral and written Fields of Study examinations. For complete details of the examination format and other candidacy requirements, see [commfilm.ucalgary.ca/candidacy-requirements](http://commfilm.ucalgary.ca/candidacy-requirements).

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal or external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on Awards, see the [Awards and Financial Assistance](#) section of this Calendar and [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Students applying for the Graduate Awards Competition must submit their applications to the Department of Communication, Media and Film Graduate Programs Office by January 15.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](http://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- a) A completed Bachelor of Music degree (or equivalent), including study in composition.
- b) A portfolio of at least three recent compositions, together with recordings (where available). Applicants wishing to specialize in electroacoustic composition must submit recordings.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI613 Sem in Theory & Composition](#), [MUSI631 Res Tech & Biblio of Music](#) and [MUSI641 Composition](#)
- one of [MUSI641 Composition](#) or [MUSI653 Projects in Computer Music](#)
- 3-unit graduate Music course, and
- 6 units of approved graduate-level courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

### Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be either a substantial creative project and an accompanying descriptive essay related to the project, or a portfolio of creative work, the majority of which must have been created in the second year of residency, and an accompanying descriptive essay related to the portfolio. Normally, the project or portfolio will have been presented in a public recital prior to the thesis defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is five years for the Master of Music programs.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) A portfolio of works, together with recordings, if available, and an extended research paper.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- 6 units of [MUSI741 Composition](#).
- 6 units of [MUSI613 Sem in Theory & Composition](#), and
- 6 units of additional approved graduate courses.

### Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

The thesis is interpreted to be a substantial creative project and an accompanying analytical/research paper approved by the supervisory committee.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is six years for the doctoral program.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

The course-based Master of Strategic Studies is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-master-strategic-studies-course-based>.

In addition to the **admission** requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

- a) A four-year bachelor's degree with a grade point average of at least 3.40 on a four-point scale.
- b) A writing sample.
- c) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test; a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

MSS, course-based students will complete 24 units of coursework consisting of:

a) 12 units of core courses:

**Complete ALL of the following Courses:**

- HTST655 - (STST 655)Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST647 - 21st Century Security Issues  
**AND** STST610 - Questions and Methods  
**AND** STST612 - Questions and Methods II

b) 9 units of additional graduate courses which may include, but is not limited to:

**Complete ANY of the following Courses:**

- ANTH641 - Seminar in Civil-Military Relations  
**OR** HTST637 - Topics in Military History  
**OR** HTST655 - (STST 655)Classics Of Strategy  
**OR** POLI619 - War and Interpretation  
**OR** POLI633 - US Security Policy  
**OR** POLI643 - Law and Armed Conflict  
**OR** POLI675 - Selected Topics in Advanced Comparative Politics  
**OR** POLI681 - Advanced Analysis of International Relations  
**OR** POLI687 - Advanced Studies in Canadian Arctic Security  
**OR** POLI689 - Unconventional Warfare  
**OR** STST609 - The Canadian Military in the Second World War  
**OR** STST611 - Canadian Military Studies  
**OR** STST613 - The Canadian Military in the First World War  
**OR** STST649 - Special Topics in Military, Security and Strategic Studies  
**OR** STST651 - Reading Seminar

**OR STST653 - Research Seminar**

**OR STST663 - Wars - Causes & Aftermaths**

With the approval of the Graduate Program Director, any graduate course pertinent to the student's studies may be taken. Also consult the program website <https://arts.ucalgary.ca/centre-military-security-strategic-studies> for a list of other recommended graduate courses.

### Additional Comments:

c) **STST653 Research Seminar** (3 units) research paper

\*Skills Internship Option: An extra to degree option available to students upon completion of all degree requirements. Through the Faculty of Graduate Studies students may take a Transformative Talent Internship designed to explore career options and develop practical skills: <https://grad.ucalgary.ca/my-gradskills/experiential-learning/internships>.

### Additional Program Information

#### Type

Completion Requirement

### Additional Comments:

### Advanced Credit

In the course-based master's program, **advanced credit** may be given for a maximum of two courses (6 units) at the senior undergraduate (500) level. The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

### Flexible Grade Option (CG Grade)

The Centre for Military, Security and Strategic Studies for our MSS course-based program will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

With the approval of the Graduate Director, students enrolled in the course-based MSS program may apply to take one 500-level course for graduate credit but are required to complete additional requirements for the course.

### Time Limit

Expected completion time is one year for the course-based MSS. Maximum completion time is four years.

### Financial Assistance

#### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## Overview

# UCalgary

## General Program Information

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-master-strategic-studies-thesis-based>.

In addition to the **admission** requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

- a) A four-year bachelor's degree with a grade point average of at least 3.40 on a four-point scale.
- b) A writing sample.
- c) An agreement to supervise by a potential supervisor.
- d) A research proposal.
- e) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test; a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- f) Two letters of reference.
- g) For applicants in the thesis-based MSS, email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, the Centre for Military, Security and Strategic Studies requires that all master's students complete core courses and areas of concentration courses.

MSS, thesis-based students will complete 21 units of coursework consisting of:

- a) 12 units of core courses:

##### Complete ALL of the following Courses:

- HTST655 - (STST 655) Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST610 - Questions and Methods  
**AND** STST612 - Questions and Methods II  
**AND** STST647 - 21st Century Security Issues

- b) 9 units of additional graduate courses which may include, but are not limited to:

**Complete ANY of the following Courses:**

- ANTH641 - Seminar in Civil-Military Relations
- OR HTST637 - Topics in Military History
- OR HTST655 - (STST 655) Classics Of Strategy
- OR POLI619 - War and Interpretation
- OR POLI633 - US Security Policy
- OR POLI643 - Law and Armed Conflict
- OR POLI675 - Selected Topics in Advanced Comparative Politics
- OR POLI681 - Advanced Analysis of International Relations
- OR POLI687 - Advanced Studies in Canadian Arctic Security
- OR POLI689 - Unconventional Warfare
- OR STST609 - The Canadian Military in the Second World War
- OR STST611 - Canadian Military Studies
- OR STST613 - The Canadian Military in the First World War
- OR STST649 - Special Topics in Military, Security and Strategic Studies
- OR STST651 - Reading Seminar
- OR STST653 - Research Seminar
- OR STST663 - Wars - Causes & Aftermaths

**Additional Comments:**

With the approval of the Graduate Program Director, any graduate course pertinent to the student's studies may be taken. Also consult the program website <https://arts.ucalgary.ca/centre-military-security-strategic-studies> for a list of other recommended graduate courses.

MSS thesis-based students are required to present their supervisor with a formal thesis proposal normally no later than the end of their second term (usually, the end of the Winter Term of their first year for students who entered the program as thesis-based students; for students transferring from the course-based program, where at all possible the same general timeline should apply).

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

**Flexible Grade Option (CG Grade)**

The Centre for Military, Security and Strategic Studies for our MSS thesis-based program will not permit the Flexible Grade Option (CG Grade) for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

With the approval of the Graduate Director, students enrolled in the thesis-based MSS program may apply to take one 500-level course for graduate credit but are required to complete additional requirements for the course.

**Time Limit**

Expected completion time is two years for the thesis-based MSS. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An incoming student for the thesis-based program must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

## Thesis Examination

In addition to the Faculty of Graduate Studies [Thesis Examination](#) requirements, the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Doctoral students will normally be admitted as full-time students. In consultation with the Faculty of Graduate Studies, the Graduate Program Director may, however, approve requests for part-time registration or transfer from full-time to a part-time status.

Location: 8th floor, Social Sciences Building

Program number: 403.220.4038

Fax: 403.282.0594

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://cmss.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/military-security-strategic-studies-doctor-philosophy-thesis-based>.

In addition to the **admission** requirements of the Faculties of Graduate Studies and Arts, CMSS requires:

Applicants will be admitted only if the CMSS Graduate Committee is satisfied that adequate supervision is likely to be available for the duration of their studies. Successful applicants should be aware that admission to the program depends upon a match between student and faculty interests, as well as availability of faculty supervision. Students are also advised to consult the Faculty of Graduate Studies and the **academic regulations** section in this calendar.

Prerequisites for admission to the PhD program are:

- a) A completed master's degree.
- b) Normally, a minimum of two years of professional, on-going experience (or equivalent) in the security and defence field.
- c) A GPA of 3.70 on a four-point scale over all completed graduate courses in the master's program; 3.40 in the undergraduate program over the last 60 units or two years of study.
- d) A detailed statement of the proposed thesis research explaining how the thesis would relate to one's work experience and/or professional career goals.
- e) A representative piece of written work, normally a master's thesis chapter or major research paper.
- f) A tentative agreement from a faculty member to supervise. Students need to contact potential supervisors at the beginning of the application process.
- g) English language proficiency: TOEFL with a minimum score of 97 (Internet-based test); 7.0 on the IELTS test; 68 on the PTE test; a CAEL score of 70 (with no section less than 70); a Duolingo score of 135 (with no subscore below 115); or a Cambridge Proficiency score of 191. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- h) Two letters of reference.
- i) Email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements:

Doctoral students will normally complete 15 units of coursework consisting of:

**Complete ALL of the following Courses:**

- HTST655 - (STST 655) Classics Of Strategy  
**AND** POLI685 - Strategic Studies  
**AND** STST647 - 21st Century Security Issues  
**AND** STST751 - Reading Seminar  
**AND** STST753 - Research Seminar

#### Additional Comments:

It is strongly recommended that PhD students also take **STST610 Questions and Methods** and **STST612 Questions and Methods II**.

\*For candidacy examinations, students have two major fields of study. One of these will be strategic studies and the other the dissertation area. Students will be required to take 3 units preparation in each field, namely STST751 Reading Seminar and STST753 Research Seminar.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to the required level for admission.

### Flexible Grade Option (CG Grade)

The Centre for Military, Security and Strategic Studies will not permit the Flexible Grade Option (CG Grade) for any course offered by the CMSS and the other departments from which our students take courses.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Expected completion time for the PhD in Military and Strategic Studies is four years and maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

An incoming student must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

The Supervisory Committee should be appointed as quickly as possible but no later than three months after the appointment of the Permanent Supervisor.

### Required Examinations

In addition to the Faculty of Graduate Studies Thesis Examination requirements, the program requires:

### Candidacy

Doctoral students must complete a written thesis proposal, which is approved by their Supervisory Committee in a thesis proposal meeting, as well as pass oral and written Field of Study examinations. For complete details of candidacy requirements and examination format, see

[https://www.ucalgary.ca/pubs/calendar/grad/current/cmss.ucalgary.ca/phd/program\\_requirements](https://www.ucalgary.ca/pubs/calendar/grad/current/cmss.ucalgary.ca/phd/program_requirements).

### Thesis Examination

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

#### **Financial Assistance**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

**Program is suspended and is not currently accepting applications.**

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts requirements, Music requires that all applicants submit:

- a) A completed Bachelor of Music degree, including study in conducting.
- b) Demonstrated ability in an audition, which can be met in two ways:
  - A video of approximately fifteen minutes.
  - A rehearsal of a University ensemble (during Fall and early Winter).
- c) Demonstrated competence on a major instrument or voice.
- d) One-page letter detailing their specific reasons for pursuing graduate study.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### **Program/Course Requirements**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- [MUPF632 Advanced Choral Conducting](#) or [MUPF634 Advanced Instrumental Conducting](#)
- 3-unit graduate course in Music Theory, Composition, Sonic Arts or Music History and Literature
- 6 units of graduate Music courses, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be two public performances, on or off campus, with University or community ensembles. At least one Canadian work should be included in one of the recitals. The examining committee will evaluate the candidate's performance in both of the recitals. Recital proposals are to be submitted to the Graduate Program Administrator for approval by the Graduate Committee at least two months before each performance.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is five years for the Master of Music programs.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

**Additional Comments:**

### **Supervisory Assignments**

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### **Required Examinations**

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

### **Thesis Examinations**

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### **Financial Assistance**

#### **Type**

Completion Requirement

#### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## **Overview**

### **General Program Information**

The University offers an interdisciplinary specialization in Computational Neuroscience in the following faculties and graduate programs:

- Cumming School of Medicine, Neuroscience
- Department of Computer Science
- Faculty of Arts, Psychology
- Faculty of Science, Physics and Astronomy
- Graduate Program in Biomedical Engineering

The specialization is offered at the MSc (thesis-based) and PhD levels.

Location: ACH B4-514

Faculty Number: 403-955-7389

Fax: 403-955-2772

E-mail address: <mailto:sibray@ucalgary.ca>

Web page URL: <https://hbi.ucalgary.ca/computational-neuroscience/graduate-specialization/about-program>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Computational Neuroscience specialization are those of the home graduate program:

- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Neuro](#)
- [PHD Neuroc](#)
- [MSCT Physi](#)
- [PHD Physic](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Admission into a graduate program that offers the interdisciplinary specialization and the submission and approval of a written request to the specialization director to join the specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the [requirements](#) of the Faculty of Graduate Studies and the home program:

#### **MSc students are required to complete:**

- [MDSC628 Intro Computational Neuroscien](#)\*; plus
- a minimum of 3 units of courses from the Neuroscience Series (see below).

#### **PhD students are required to complete:**

- [MDSC628 Intro Computational Neuroscien](#)\*; plus
- a minimum of 3 additional units of courses from the Computational Series (see below); and
- a minimum of 6 units of courses from the Neuroscience Series (see below).

\*Medical Science 628 (Introduction to Computational Neuroscience) is expected to be completed unless approval is received from the Computational Neuroscience program oversight committee to substitute another Computational Series course.

COMPUTATIONAL SERIES			NEUROSCIENCE SERIES
BMEN515 Bioeng Methods in Sys & Physio	MATH685 Stochastic Processes	PHYS521 Non-linear Dynamics and Chaos	MDSC619.01 Cellular,MolecularNeuroscience
BMEN619 Advanced Topics in BMEN	MDSC605 (Cpsc605)InfoStoreProcBioSys	PHYS581 Computational Physics III	MDSC619.02 Sys Neuroscience & Neuropath
CPSC607 Biological Computation	MDSC689.01 Medical Imaging Techniques	PHYS605 Advanced Data Analysis	MDSC622 Neurobiology of Mental Illness
CPSC635 ImageAnalysis&ComputerVision	MDSC689.02 Adv Magnetic Resonance Imaging	PHYS619 Statistical Physics II	MDSC624 Neuroanatomy
MATH605 Differential Equations III	MDSC689.03 Adv Medical Image Processing	PHYS621 Nonlinear Dyn & Patt Formation	PSYC620 Adv Topics Brain & Cog Science
MATH661.05 Numerical Differential Eqtn's	MDSC689.11 Medical Imaging Applications	PSYC613 Signal/Syst Analy Behave Rsrch	PSYC623 Functional Neuroanatomy
MATH669.01 Wavelet Analysis	MDSC689.99 Medical Imaging Project	PSYC615 Analysis of Variance	PSYC625 Clinical Neuropsychology
MATH669.03 Mathematical Biology	MDSC755 Directed Study	PSYC617 Multivariate Data Analysis	

Note: Other course options may be available with approval from the Program Oversight Committee.

All students are expected to participate in a Computational Neuroscience journal club. Students will also be expected to attend relevant seminars and present their work at a work-in-progress seminar series during their degree.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant should make requests for Advanced Credit at the time of application, as part of the admissions process. Credit may be granted for appropriate courses to count towards the specialization with approval of the Computational Neuroscience program.

### Credit for Undergraduate Courses

Credit will not be given for undergraduate or 500-level courses.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see Time Limits).

### Supervisory Assignments and Required Examinations

See requirements of home program:

- MSCT Biome
- PHD Biomed
- MSCT Compu
- PHD Comput
- MSCT Neuro
- PHD Neuroc
- MSCT Physi
- PHD Physic
- MSCT Psych

- [PHD Psycho](#)

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

Students may register in the MSc program as part-time students only with permission from the Department.

### Specializations:

- [MSCT Comp](#). The specialization is offered jointly through the Department of Computer Science and the Department of Electrical and Software Engineering.
- [Wearable T](#)
- [Comp Neuro](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

For Information Security graduate programs, see:

[GCERT Data](#)

[GCERT Netw](#)

[GCERT Soft](#)

[Master of](#)

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/computer-science-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

a) An undergraduate background of either:

A four-year bachelor's degree or equivalent in Computer Science from a recognized institution with a minimum GPA of 3.30 in the last two years (i.e., last 60 units) of the undergraduate program

OR

A four-year bachelor's degree or equivalent from a recognized institution with a minimum GPA of 3.30 in the last two years (i.e., last 60 units) of the undergraduate program.

## UCalgary

In addition, candidates must have an undergraduate course at the 3rd or 4th year level in each of the following computer science areas:

- Theory of Computation
- Software Engineering
- Systems (Operating Systems, Compilers, Distributed Systems, Networking)
- Application (Artificial Intelligence, Graphics, Databases, etc.)

The cumulative GPA for these courses must be at least 3.30.

Post-degree Computer Science courses may be considered in calculating the GPA. Exceptions to the GPA requirements may be considered for students with either:

- Demonstrated research excellence, or
- GRE General scores of at least 600 verbal and 750 quantitative and either 720 analytical (old test format) or 5.5 (new test format).

b) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.

c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

a) Course Requirements: [CPSC699 Research Methodology in Cpsc](#), plus:

b) Twelve units of additional courses. A minimum of 6 units must be graduate-level computer science courses (labelled CPSC or SENG), excluding professional program courses, and a maximum of 3 units can be an undergraduate course that must be numbered at the 500 level.

It is recommended that students who are considering continuing on to a doctoral program or entering certain career paths, select courses that demonstrate some breadth across Computer Science (see [PHD Comput](#) Breadth Requirements for details).

c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Computer Science will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For MSc programs, at most 3 units at the 500 level may be taken as part of the course work requirement. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate. Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

### Time Limit

Expected completion time is two years for thesis-based Master of Science.

### Supervisory Assignments, Research Proposal, and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

### Research Proposal Requirements

At the master's level, research proposal requirements are determined by the supervisor.

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for **thesis examinations**, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## Overview

### General Program Information

Students may register in the PhD program as part-time students only with permission from the Department.

### Specializations:

- [Wearable T](#)
- [Comp Neuro](#)

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Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

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For Information Security graduate programs, see:

[GCERT Data](#)

[GCERT Netw](#)

[GCERT Soft](#)

[Master of](#)

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/computer-science-doctor-philosophy-thesis-based>.

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To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- A Master of Science, thesis-based degree from a recognized institution with a minimum GPA of 3.30. For exceptional students applying with a Bachelor of Science degree, a four-year Honours degree or its equivalent from a recognized institution with a minimum GPA of 3.70 and demonstrated research ability.
- All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.
- Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

#### Type

#### Completion Requirement

#### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to the Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

- a) Course Requirements: Students will be required to have achieved at least a grade of "B-" in a minimum of 24 units beyond the requirements for an undergraduate degree before completion of the PhD degree. A minimum of 9 units of these must be taken while the student is enrolled as a PhD student in Computer Science at the University of Calgary. Of the 24 units, a minimum of 18 units must be graduate-level courses, excluding professional program courses, with the remaining 6 units being either graduate-level courses or advanced (500-level) undergraduate courses. A minimum of 12 units of the required courses must be taken from a degree-granting Computer Science Department. In addition to the above courses, Computer Science 699 or equivalent experience is required and does not count toward the minimum 24 units courses above.
- b) Breadth Requirements: The above courses must be taken from multiple research areas. A maximum of six courses (18 units) in one research area are counted toward the minimum 24 units. Courses in the intersection of two or more areas are counted in the area with the most completed course credits. The current research areas are: Artificial Intelligence and Multi-Agent Systems, Bioinformatics and Biological Computations, Computer Graphics, Computer Vision and Image Processing, Database, HCI and Visualization, Networks and Systems, Security, Theory and Foundations, Scientific Computing, Software Engineering, Other areas in Computer Science, External to Computer Science. Credits for courses external to the Department of Computer Science are only given on condition that no Computer Science course which covers similar content is counted toward the required eight courses; such courses will be counted toward the appropriate areas in Computer Science.
- c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Computer Science will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For PhD programs, at most 6 units at the 500 level may be taken as part of the course work requirement; at most one of these taken while registered in the current PhD program. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate on the normal Doctor of Philosophy Course Approval Form (available from the Department). Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

### Time Limit

Expected completion time for doctoral students entering with a master's degree is four years, and five years for a student transferring to the doctoral program without a master's degree.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

Doctoral students select their supervisory committee members in consultation with their permanent supervisors.

## Research Proposal Requirements

At the doctoral level, the thesis proposal must be approved by the student's supervisory committee before an oral examination on the proposal is scheduled. For complete details of the requirements, see

[http://www.ucalgary.ca/cpsc/graduate/programs/doctoral\\_phd\\_thesis\\_based/current\\_regulations](http://www.ucalgary.ca/cpsc/graduate/programs/doctoral_phd_thesis_based/current_regulations).

## Required Examinations

### Candidacy

Doctoral students must complete a written Field of Study examination, a written thesis proposal, and an oral examination on the thesis proposal. For complete details of the candidacy requirements, see

[http://www.ucalgary.ca/cpsc/graduate/programs/doctoral\\_phd\\_thesis\\_based/current\\_regulations](http://www.ucalgary.ca/cpsc/graduate/programs/doctoral_phd_thesis_based/current_regulations).

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## Overview

### General Program Information

This specialization is offered jointly through the Department of Computer Science and the Department of Electrical and Software Engineering.

# UCalgary

Students may register in the MSc program as part-time students only with permission from the Department.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

For Information Security graduate programs, see:

[GCERT Data](#)

[GCERT Netw](#)

[GCERT Soft](#)

[Master of](#)

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/computer-science-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- a) A four-year bachelor's degree or equivalent in Computer Science from a recognized institution with a minimum GPA of 3.00 in the last two years (i.e., last 60 units) of the undergraduate program.
- b) at least three years relevant experience in the software industry following the bachelor's degree.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to the Faculties of Graduate Studies and Science requirements, the Department requires:

- a) Course Requirements: **CPSC699 Research Methodology in Cpsc**, plus:
- b) Twelve units of additional courses. A minimum of 9 units of these courses must be taken from the approved SENG list (available from the Department), and a maximum of 3 units can be an undergraduate course that must be numbered at the 500 level.

It is recommended that students who are considering continuing on to a doctoral program or entering certain career paths, select courses outside the approved SENG list that demonstrate some breadth across Computer Science (see [PHD Comput](#) Breadth Requirements for details).

c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Computer Science will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For MSc programs, at most 3 units at the 500 level may be taken as part of the course work requirement. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate. Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

### Time Limit

Expected completion time is two years for thesis-based Master of Science.

#### Supervisory Assignments, Research Proposal, and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

### Research Proposal Requirements

At the master's level, research proposal requirements are determined by the supervisor.

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for thesis examinations, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## **Overview**

### **General Program Information**

The purpose of the graduate program in Clinical Psychology is to prepare students for careers as doctoral-level clinical psychologists in research, academic, and applied settings. In the course of doctoral training students also are required to complete the Master of Science (MSc) degree. However, consistent with its goal of doctoral training, the program only admits students who wish to pursue the doctoral degree. Students will be able to emphasize one of three areas of interest: adult clinical psychology, child clinical psychology or clinical neuropsychology.

Students registered in master's thesis-based and doctoral programs will be considered full-time. The program does not offer a part-time option.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [psyc.ucalgary.ca/graduate-program/program-clinical-psychology](https://psyc.ucalgary.ca/graduate-program/program-clinical-psychology)

## **Admissions**

### **Program Admissions Information**

The deadline for complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/clinical-psychology-master-science-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/clinical-psychology-master-science-thesis-based).

In addition to the Faculties of Graduate Studies and Arts **requirements**, the program requires:

- a) An honours degree (or equivalent) in psychology or related discipline with a minimum grade point average of 3.60 on a four-point scale in the last 60 units to be considered for entry, although competition for the program is such that higher grade point averages are typical of students who are admitted.
- b) A statement of research and professional interests (maximum 500 words), including the specification of prospective research supervisors from among current Program faculty.
- c) A research proposal.
- d) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), or an IELTS score of 7.5, or a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- e) Two academic reference letters.

Additional information about applying to the Clinical Psychology program can be found in the document **Important Things to Know about our Admissions Process** at: <https://arts.ucalgary.ca/psychology/future-students/graduate/programs/clinical->

## psychology.

Master of Science students must formally apply and be approved by the program and the Faculty of Graduate Studies for admission to the doctoral program upon completion of Master of Science requirements.

### Undergraduate Breadth Courses

In preparation for graduate studies, students are strongly encouraged to take the following senior-level undergraduate courses:

- 3 units in the history and systems of psychology (e.g., Psychology 305, 405 or equivalent)
- 6 units in biological bases of behaviour (e.g., Psychology 369, 375, 469, 471, 473, 475, 478, 479 or equivalents)
- 6 units in cognitive-affective bases of behaviour (e.g., Psychology 365, 373, 455, 463 or equivalents)
- 6 units in social bases of behaviour (e.g., Psychology 345, 442, 443, 447 or equivalents)
- 6 units in individual behaviour (e.g., Psychology 383, 385, 431, 492 or equivalents).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Complete ALL of the following Courses:

- PSYC601 - History of Psychology  
**AND** PSYC615 - Analysis of Variance  
**AND** PSYC617 - Multivariate Data Analysis  
**AND** PSYC623 - Functional Neuroanatomy  
**AND** PSYC650 - Clinical Research  
**AND** PSYC651 - Development and Psychopathology  
**AND** PSYC659 - Ethics and Professional Issues  
**AND** PSYC671 - Adult Assessment  
**AND** PSYC673 - Child Assessment  
**AND** PSYC680 - Lifespan Psychotherapy
- a 3-unit elective selected from graduate-level Psychology courses with approval by the Graduate Program Director
- Practicum I\*

### Practicum Requirements

Practicum I (MSc) and Advanced Practicum I and II (PhD) are milestone requirements of the program. Advanced Practicum III (PhD) is an optional practicum milestone.

- Students must successfully complete these supervised practicums with a maximum of 14 hours a week for a maximum of 10 months.
- Each practicum involves a supervised training experience in an approved clinical setting.
- Practicums provide advanced in-depth exposure to specific clinical populations and to the application of various psychological assessment and intervention strategies and techniques.
- Only students who are registered in the program may undertake any of the Practicums.
- The specific requirements of the Practicums are established on a student-by-student basis.
- Practicums will not be included in GPA calculations.
- Students may request to take an additional practicum called Advanced Practicum III to be added to either a Master or Doctoral program if requested by the student and agreed to by the supervisor.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit may be given for up to 12 units of graduate work, if this work is consistent with the program's requirements.

### Flexible Grade Option (CG Grade)

The Clinical Psychology program in the Psychology Department will not permit the Flexible Grade Option (CG Grade) for any course offered by the Clinical Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Students admitted to the program who completed undergraduate breadth courses or their equivalents (see Admissions) may be exempt from comparable breadth requirements in their graduate program.

### Time Limit

It is expected that students will complete the MSc thesis within 2 years. Students in the MSc program must complete all requirements within 4 registration years. Students who have taken three years to complete all requirements for the master's degree will normally not be admitted into the doctoral program. It is possible for students to complete the MSc and PhD program within 5 years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Program students must have a research supervisor at all times. Supervisors are arranged by mutual consent of student and faculty member, and are consistent with the focus of the student's research work. Master's level students must have a supervisory committee consisting of at least three members, with at least one who is a member of the core clinical faculty.

### Research Proposal

Students in the program must complete both a master's thesis and doctoral thesis, according to the criteria set by the Faculty of Graduate Studies. These research projects typically involve the design of a research question and research project, the collection, analysis and interpretation of original data, and the preparation of a written document consistent with good scholarship. Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

### Thesis Examinations

Final thesis oral examinations are open.

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled

## *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to qualified students. Applicants and program students are strongly encouraged to apply for internal and external awards. For information on Awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## **Overview**

### **General Program Information**

The purpose of the graduate program in Clinical Psychology is to prepare students for careers as doctoral-level clinical psychologists in research, academic, and applied settings. In the course of doctoral training students also are required to complete the **MSCT Clini** degree. However, consistent with its goal of doctoral training, the program only admits students who wish to pursue the doctoral degree. Students will be able to emphasize one of three areas of interest: adult clinical psychology, child clinical psychology or clinical neuropsychology.

Students registered in master's thesis-based and doctoral programs will be considered full-time. The program does not offer a part-time option.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [psyc.ucalgary.ca/graduate-program/program-clinical-psychology](http://psyc.ucalgary.ca/graduate-program/program-clinical-psychology)

## **Admissions**

### **Program Admissions Information**

The deadline for complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/clinical-psychology-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/clinical-psychology-doctor-philosophy-thesis-based)

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- An honours degree (or equivalent) in psychology or related discipline with a minimum grade point average of 3.60 on a four-point scale in the last 60 units to be considered for entry, although competition for the program is such that higher grade point averages are typical of students who are admitted.
- A statement of research and professional interests (maximum 500 words), including the specification of prospective research supervisors from among current Program faculty.
- A research proposal.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), or an IELTS score of 7.5, or a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- Two academic reference letters.

Additional information about applying to the Clinical Psychology program can be found in the document **Important Things to Know about our Admissions Process** at: <https://arts.ucalgary.ca/psychology/future-students/graduate/programs/clinical-psychology>.

Master of Science students must formally apply and be approved by the program and the Faculty of Graduate Studies for admission to the doctoral program upon completion of Master of Science requirements.

## Undergraduate Breadth Courses

In preparation for graduate studies, students are strongly encouraged to take the following senior-level undergraduate courses:

- 3 units in the history and systems of psychology (e.g., Psychology 305, 405 or equivalent)
- 6 units in biological bases of behaviour (e.g., Psychology 369, 375, 469, 471, 473, 475, 478, 479 or equivalents)
- 6 units in cognitive-affective bases of behaviour (e.g., Psychology 365, 373, 455, 463 or equivalents)
- 6 units in social bases of behaviour (e.g., Psychology 345, 442, 443, 447 or equivalents)
- 6 units in individual behaviour (e.g., Psychology 383, 385, 431, 492 or equivalents).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- **PSYC625 Clinical Neuropsychology**, **PSYC627 Neuropsychological Testing**, and **PSYC750**.
- 3 units in each of the four breadth areas. This requirement may be satisfied by completing **PSYC750 Adv Seminar In Clinical Psyc** and other graduate Psychology courses selected with approval by the Graduate Program Director.
  1. Biological bases of behaviour;
  2. cognitive-affective bases of behaviour;
  3. social bases of behaviour; and
  4. individual behaviour.
- Advanced Practicum I, Advanced Practicum II\*

\*See Practicum and Internship Requirements for further information.

## Practicum Requirements

Practicum I and Advanced Practicum I and II are milestone requirements of the program. Advanced Practicum III is an optional practicum milestone.

- Students must successfully complete these supervised practicums with a maximum of 14 hours a week for a maximum of 10 months.
- Each practicum involves a supervised training experience in an approved clinical setting.
- Practicums provide advanced in-depth exposure to specific clinical populations and to the application of various psychological assessment and intervention strategies and techniques.
- Only students who are registered in the program may undertake any of the Practicums.
- The specific requirements of the Practicums are established on a student-by-student basis.
- Practicums will not be included in GPA calculations.
- Students may request to take an additional practicum called Advanced Practicum III to be added to either a Master or Doctoral program if requested by the student and agreed to by the supervisor.

## Pre-Doctoral Internship Requirements

12-month Pre-Doctoral Internship is a milestone requirement of the program.

- Students must successfully complete a 12-month, full-time supervised training experience in an approved clinical setting.
- Only students who are registered in the program and in their final year of study may undertake the Doctoral Internship.
- The Internship includes intensive exposure to various professional issues, the opportunity to work with a diverse range of clinical populations and problems, and advanced training in the use of specific psychological assessment and intervention strategies.
- The specific requirements of the Doctoral Internship are established on a student-by-student basis.
- The internship will not be included in GPA calculations.
- Failure to exhibit appropriate clinical suitability or professional conduct may constitute grounds for failure.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit may be given for up to 12 units of graduate work, if this work is consistent with the program's requirements.

### Flexible Grade Option (CG Grade)

The Clinical Psychology program in the Psychology Department will not permit the Flexible Grade Option (CG Grade) for any course offered by the Clinical Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Students admitted to the program who completed undergraduate breadth courses or their equivalents (see Admissions) may be exempt from comparable breadth requirements in their graduate program.

### Time Limit

It is expected that students will complete the MSc thesis within 2 years. Students in the MSc program must complete all requirements within 4 registration years. Students who have taken three years to complete all requirements for the master's degree will normally not be admitted into the doctoral program. It is possible for students to complete the MSc and PhD program within 5 years. Maximum time to completion for the doctoral program is 6 years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Program students must have a research supervisor at all times. Supervisors are arranged by mutual consent of student and faculty member, and are consistent with the focus of the student's research work. Doctoral candidates must have a supervisory committee of at least three members.

### Research Proposal

Students in the program must complete both a master's thesis and doctoral thesis, according to the criteria set by the Faculty of

Graduate Studies. These research projects typically involve the design of a research question and research project, the collection, analysis and interpretation of original data, and the preparation of a written document consistent with good scholarship. Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

## Required Examinations

In addition to Faculty of Graduate Studies requirements, the program requires:

## Candidacy

Doctoral students must complete a written thesis proposal and pass oral and a written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see [psyc.ucalgary.ca/graduate-program/program-clinical-psychology](https://psyc.ucalgary.ca/graduate-program/program-clinical-psychology).

## Thesis Examination

Final thesis oral examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. Applicants and program students are strongly encouraged to apply for internal and external awards. For information on Awards, see the [Awards and Financial Assistance](#) section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

**Graduate Certificates in Social Work** serve as stand-alone credentials for practicing social workers who seek formal professional development opportunities in their field or provide practicing social workers a flexible option to pursue the MSW degree.

Students may complete a given certificate only once. Repeating the same certificate is not permitted. Not all Graduate Certificates and specializations are offered every year. For availability, consult the Faculty of Social Work [website](#).

### Program Delivery

The certificates are completed full-time and courses are offered by distance (online) learning. Most require virtual and/or in-person residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Note: International students admitted to a Graduate Certificate with a mandatory in-person campus residency must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program.

## Specializations (CSWP):

- Adult Mental Health and Addictions
- Individuals, Families and Group
- Infant, Child and Adolescent Mental Health
- Trauma-Informed Practice
- Clinical Gerontology Practice
- Community-Informed Practice for Health and Wellbeing

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## Laddered Pathway from Graduate Certificates to MSW

Students who complete the Graduate Certificate in Clinical Social Work Practice (CSWP) and one of: [GCERT Adva](#), [GCERT Inte](#) or [Social Wor](#) may apply to the Master of Social Work (course-based) program. See [LADMSWCB](#).

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-cert>.

Students who wish to complete two successive certificates through a laddered pathway into the MSW (course-based) degree must apply to each certificate and the MSW (a total of three applications) and will receive each credential upon its successful completion.

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In addition to the Faculty of Graduate Studies' [admission](#) requirements, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized\* institution. The degree must be awarded prior to the start of the Graduate Certificate.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council of Social Work Education (CSWE), and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) For applicants required to present proof of proficiency in English: a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

**Note:** Once admitted, students are not permitted to switch specializations within the chosen certificate. Requests to defer an offer of admission are not normally considered.

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Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

The Graduate Certificate consists of 12 units of coursework. Course requirements are determined by the specialization.

**Complete ANY of the following Course Sets:**

- Social Work, CSWP Specialization, Adult Mental Health and Addictions  
**OR** Social Work, CSWP Specialization, Individuals Families and Group  
**OR** Social Work, CSWP Specialization, Infant, Child and Adolescent Mental Health  
**OR** Social Work, CSWP Specialization, Trauma Informed Practice  
**OR** Social Work, CSWP Specialization, Clinical Gerontology Practice  
**OR** Social Work, CSWP Specialization, Community Informed Practice for Health and Wellbeing

**Additional Comments:**

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

Advanced credit is not awarded toward a graduate certificate.

## Flexible Grade Option (CG Grade)

The Faculty of Social Work will allow students in the Graduate Certificates in Social Work to pursue the [Flexible Grade Option \(CG Grade\)](#) for graduate courses offered by the Faculty. Students may receive a grade of CG only once, for a total of 3 units, regardless of the number of graduate certificates they complete. In addition, students may receive a grade of CG only once throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Time Limit

The expected completion time is eight months for any of the graduate certificates. Maximum completion time is two years.

Students taking graduate certificates as part of the ladder pathway to the MSW (course-based) degree program must apply to ladder into the MSW within five years from the start of their first graduate certificate in the laddering sequence.

## Financial Assistance

### Type

## Completion Requirement

### Additional Comments:

Students enrolled in a Graduate Certificate in Social Work are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for some program recommended awards. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The course-based program is appropriate for students who intend to provide direct service in the field. This program is available for both BSW graduates and graduates from other disciplines.

### Specializations:

- Clinical Social Work Practice (CSWP)
- [MSWC Inter](#)
- [Social Wor](#)

## Program Delivery

The MSW course-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

The course-based MSW is a continuous, full-time program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are an approved leave of absence.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social->

For application details, see the [graduate studies webpage: https://grad.ucalgary.ca/graduate-studies/graduate-program/2024/work-msw-course](https://grad.ucalgary.ca/graduate-studies/graduate-program/2024/work-msw-course).

In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

f) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide rationale in the application.

For those applying to the MSW through the MSW Laddering Pathway (upon completion of two specific Graduate Certificates), the academic reference must come from an instructor who taught the applicant in one of the Graduate Certificates.

MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in Student Orientation sessions held prior to the start of the program is mandatory for students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work.**

Nine foundation courses (27 units), as follows:

**Enroll in the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

Foundation courses must be completed before students advance to Specialization specific courses and Advanced Practicum (Social Work 660 and 662).

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a BSW or completed foundation courses:**

A total of 36 units of coursework, as follows:

- a) 12 units of Advanced Social Work Practice courses;
- b) 12 units of Specialization courses (topics may vary from year to year and by location);
  - Within the CSWP specialization there are several topic areas. Each consists of 12 units (four courses) which address a particular subject within the broader field of Clinical Social Work Practice. Students must complete all 12 units in the selected topic area.
- c) 12 units of Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE).
  - Students must be available to complete 500 hours of practicum. This represents a significant time commitment. Students must ensure that they are aware of field requirements, and available for field placements as scheduled, in order to complete their practicum within the appropriate term.
  - Practicum hours are typically completed in-person, during regular business hours and close to the student's home community anywhere in Canada. International practicums may be an option for interested MSW students only in the International and Community Development specialization in their Advanced Practicum. This will be dependent on the location, scope of practice, timeframe, and supervision availability.
  - A student who fails or withdraws from a practicum course (Social Work 660 or 662) will fail or be required to withdraw from the co-requisite courses (Social Work 660 or 662). In addition, the student may be required to withdraw from the program.

**Enroll in the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, CSWP Specialization, Adult Mental Health and Addictions  
**OR** Social Work, CSWP Specialization, Individuals Families and Group  
**OR** Social Work, CSWP Specialization, Infant, Child and Adolescent Mental Health  
**OR** Social Work, CSWP Specialization, Trauma Informed Practice  
**OR** Social Work, CSWP Specialization, Community Informed Practice for Health and Wellbeing
- MSW, Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE)

The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed.

Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of Specialization topics: <https://socialwork.ucalgary.ca/>.

**Additional Comments:**

**Transfer to a Thesis-Based MSW**

Note: Students who wish to transfer to the thesis-based MSW must submit their transfer request to Student Services by January 31 prior to the thesis research courses and/or advanced practicum. Students who transfer must comply with the requirements of the respective program. The program transfer must be approved by both the Faculty of Social Work and Faculty of Graduate Studies.

\*Course-based MSW students with a non-BSW degree who receive credit by special assessment (CSA) for the Foundational Field Practicum (Social Work 633) are not eligible to transfer to the thesis-based MSW.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

Advanced Credit is not normally granted for the Master of Social Work degree.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Master of Social Work course-based program will allow students to pursue the **Flexible Grade Option (CG Grade)** in one graduate course offered by the faculty, with the exception of **SOWK633 Foundational Field Practicum**, **SOWK660 Advanced Practicum** and **SOWK662 Integrative Seminar**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

### Time Limits

Expected completion time is two years for BSW graduates and three years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see **Time Limits**) maximum completion time is six years for a course-based MSW.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see **Awards and Financial Assistance** for Graduate Students, the Graduate Awards **Database**, and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The thesis-based route may be appropriate for students who intend to proceed to doctoral studies and/or anticipate a career requiring advanced program evaluation or research skills. This full-time program is available for both BSW graduates and graduates from other disciplines.

#### Specializations:

- Clinical Social Work Practice (CSWP)
- **MSWT Inter**
- **Social Wor**

## Program Delivery

The MSW thesis-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

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Web page URL: <https://socialwork.ucalgary.ca/>

Email address: <mailto:fsw.studentservices@ucalgary.ca>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/social-work-master-social-work-thesis-based>.

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In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized/accredited post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) A thesis proposal providing a rationale for selecting the thesis route and a preliminary research proposal describing the research problem to be investigated and the proposed research methodologies (e.g., quantitative, qualitative, mixed methods, participatory action research, arts-based, etc.), and the study's potential contribution to social work research and practice. Students applying to the thesis route are strongly encouraged to discuss this option with the PhD/MSW Thesis Program Coordinator.

f) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met

by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and B+ in other courses.

g) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide a rationale in the application.

**Note:** MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in student orientation sessions held prior to the start of the program is mandatory for incoming students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work:**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

\*Foundation students in the thesis-based MSW are not eligible for credit by special assessment.

Foundation courses must be completed before students advance to specialization-specific courses and the two research courses (Social Work 670 and 672).

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

**For Students with a BSW or completed foundation courses:**

A total of 30 units of coursework. The coursework consists of:

a) 12 units of Advanced Social Work Practice courses;

b) 12 units of specialization courses (topics may vary from year to year and by location);

- Within the CSWP specialization, there are several topic areas. Each consists of 12 units (four courses) which address a particular subject within the broader field of Clinical Social Work Practice. Students must complete all four courses in the selected topic area.

c) 6 units of research courses.

**Enroll in the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, CSWP Specialization, Adult Mental Health and Addictions  
**OR** Social Work, CSWP Specialization, Individuals Families and Group  
**OR** Social Work, CSWP Specialization, Infant, Child and Adolescent Mental Health  
**OR** Social Work, CSWP Specialization, Trauma Informed Practice  
**OR** Social Work, CSWP Specialization, Community Informed Practice for Health and Wellbeing

- Social Work, MSW, Research Courses

**Note:** The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed. Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of specialization topics: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca).

All four ASWP courses and all four specialization courses are prerequisites to Social Work 670 and 672 (research courses).

## Additional Comments:

Students may elect to complete **SOWK660 Advanced Practicum** Advanced Practicum, but it is not a mandatory component of the thesis-based degree. Students who wish to complete Social Work 660 must have completed all the ASWP, specialization and research courses and must declare their intention to pursue a Practicum in writing to the Director of Field Education by March 1st of their final year of coursework (6-8 months prior to the expected start of the Practicum). The integrative Seminar (Social Work 662) is for course-based MSW students only.

## **Transfer to a Course-based MSW**

Normally students who begin the MSW thesis program and then want to switch to the course-based MSW may be able to do so prior to beginning the thesis research courses and at least 8 months prior to the start of Advanced Practicum.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

**Advanced Credit** is not normally granted for the Master of Social Work degree.

## Flexible Grade Option (CG Grade)

The Faculty of Social Work Master of Social Work thesis-based program will allow students to pursue the **Flexible Grade Option (CG Grade)** in graduate courses offered by the faculty, with the exception of **SOWK633 Foundational Field Practicum**, **SOWK660 Advanced Practicum**, **SOWK670 Adv Method Epistemology SOWK** and **SOWK672 Thesis Research Development**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladderized pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

## Time Limit

Expected completion time is three years for BSW graduates and four years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see [Time Limits](#)), maximum completion time is four years for a thesis-based MSW (for both BSW degree holders and non-BSW degree holders).

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

For incoming MSW thesis students, the PhD/MSW Thesis Coordinator will act as the interim supervisor. Before the end of April of the first year, each student must designate a faculty member as permanent supervisor. MSW thesis students will work with their supervisors to determine if a co-supervisor and/or supervisory thesis committee is preferred. This decision should be made prior to start of Social Work 670. The arrangement must be approved by the Graduate Program Director.

Within the first two months of working together, MSW thesis students and their interim and/or permanent supervisors are required to complete and submit to Student Services in the Faculty of Social Work the signed Student-Supervisor checklist and the Intellectual Property checklist. These become part of the student's permanent record. If a change occurs in supervision, a new Student-Supervisor checklist must be completed, signed and submitted to Student Services within two months of the change.

## Research Proposal Requirements

Students must have proposal approved by their supervisor and/or committee (if appropriate). A copy of the proposal becomes part of the student's record with the Faculty of Social Work. Once the proposal has been approved, students can proceed with applying for ethics certification.

## Required Examinations

### MSW Thesis Examination

The final examination for the thesis-based MSW involves an oral defence of the thesis. The thesis examination is conducted by the student's examining committee, which must be declared at least one month before the oral examination.

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following MSW examining committee composition:

- thesis supervisor, and, if applicable, co-supervisor/supervisory thesis committee,
- a faculty member from the Faculty of Social Work, and
- an Internal Examiner (external to the Faculty of Social Work).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

Laddering from Graduate Certificates to Master of Information Security and Privacy:

# UCalgary

Students who complete the Graduate Certificate in Data Privacy, **GCERT Netw** or **GCERT Soft** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the **Master of** program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/data-privacy>.

In addition to Faculty of Graduate Studies **admission requirements**, admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see **G.A.1 Qualifications**), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
12 units of coursework consisting of:

**Complete ALL of the following Requirement Sets:**

- Data Privacy GC courses

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

Advanced credit will not normally be given for the Data Privacy Graduate Certificate program.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For this Graduate Certificate program, credit will not normally be granted for undergraduate courses.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

### Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort.  
The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

#### Financial Assistance

##### Type

Completion Requirement

**Additional Comments:**

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the Awards and Financial Assistance section.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts **requirements**, Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

###### Year 1:

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including **DRAM605 Methods In Theatre Research** and specialization requirements. All candidates must complete a thesis.

##### Complete ALL of the following Courses:

- DRAM611 - Selected Problems in Directing I  
**AND** DRAM613 - Selected Problems in Directing II

###### Year 1:

##### Earn at least 3 credits from the following:

- DRAM641 - Artistic Research  
**OR** DRAM647 - Studies in Modern Drama I  
**OR** DRAM649 - Studies in Modern Drama II

###### Year 1 or 2:

##### Complete ALL of the following Courses:

- DRAM643 - Dramaturgy

#### Additional Comments:

## Additional Requirements

For **Directing** candidates, the thesis will consist of the direction of a full-length play and a supporting paper that reflects critically on the production and on the process of its creation.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

## Time Limit

The Master of Fine Arts degree must be completed within four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

## Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for **Thesis Examinations**, the Department requires:

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:  
All candidates must take a minimum of 18 units of graduate courses, including [DRAM605 Methods In Theatre Research](#) and specialization requirements. All candidates must complete a thesis.

**Earn at least 3 credits from the following:**

- DRAM623 - Seminar in Scene Design  
AND DRAM625 - Seminar in Costume Design  
AND DRAM627 - Seminar in Lighting Design

DRAM643 Dramaturgy is recommended.

**Additional Comments:**

Students must complete, to the satisfaction of an examining committee, a portfolio and an oral review relating to the student's design work at the completion of the first 12 units. Details concerning the portfolio are available from the Drama office.

For **Design/Technical** candidates, the thesis will consist of the design of a full-length production in two of the following areas: scene design, costume design, light design, sound design, video design. Pictorial material and a supporting paper that reflects critically upon the production and the process of its creation are also required.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

**Flexible Grade Option (CG Grade)**

The Drama program in the School of Creative and Performing Arts will not permit the Flexible Grade Option (CG Grade) for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

**Time Limit**

The Master of Fine Arts degree must be completed within four years.

**Supervisory Assignments, Research Proposal and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

The graduate committee assigns a supervisor after discussion with the student.

**Research Proposal Requirements**

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

*Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- Two letters of reference.

## Program Details

Simple Description

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including **DRAM605 Methods In Theatre Research** and specialization requirements. All candidates must complete a thesis.

**Complete ALL of the following Courses:**

- DRAM605 - Methods In Theatre Research  
**AND** SCPA609 - Interdisciplinary Processes

Plus 6 units in Drama and 6 units in other disciplines (typically Dance or Music).

#### Additional Comments:

For **Interdisciplinary Creation and Performance** candidates, the thesis will comprise a creative process, its documentation, and written reflection upon the process. It will be determined by the nature of the research in consultation with the supervisor and approved by the Graduate Committee.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

### Time Limit

The Master of Fine Arts degree must be completed within four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

## Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

*Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.

c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including [Drama 605](#) and specialization requirements.

All candidates must complete a thesis.

##### Complete ALL of the following Courses:

- DRAM671 - Sel Problems Playwriting I  
**AND** DRAM673 - Selected Problems in Playwriting II

Completion of [DRAM675 Pre-thesis in Playwriting](#) (a pre-thesis play) is recommended if this course is offered.

Year 1 or 2:

##### Earn at least 3 credits from the following:

- DRAM643 - Dramaturgy  
**OR** DRAM647 - Studies in Modern Drama I  
**OR** DRAM649 - Studies in Modern Drama II

#### Additional Comments:

For **Playwriting** candidates, the thesis will consist of a full-length play and a supporting paper that reflects critically on the play and the process of its creation.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

## Time Limit

The Master of Fine Arts degree must be completed within four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

### Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including [Drama 605](#) and specialization requirements.

All candidates must complete a thesis.

#### Complete ALL of the following Courses:

- DRAM641 - Artistic Research  
**AND** DRAM647 - Studies in Modern Drama I  
**AND** DRAM649 - Studies in Modern Drama II

Year 1 or 2:

#### Complete ALL of the following Courses:

- DRAM643 - Dramaturgy

#### Additional Comments:

For **Theatre Studies** candidates, the thesis will either be a substantial scholarly research paper or a documentation of artistic/empirical research processes and results in a significant scholarly component.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

### Time Limit

The Master of Fine Arts degree must be completed within four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

### Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

### Specializations:

## UCalgary

- Business Analytics
- Data Science
- Health Data Science and Biostatistics
- Financial and Energy Markets Data Modelling

### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the **GCERT Fund** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Graduate Diploma in Data Science and Analytics program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the **Master of** within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

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Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/data-science-analytics-diploma-course-based>

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In addition to the Faculty of Graduate Studies **admission requirements**, all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see **Qualifications**). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

Completion Requirement

The Diploma requires 24 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

**Complete ANY of the following Course Sets:**

- DSAN Diploma - Business Analytics Specialization  
**OR** DSAN Diploma - Data Science Specialization  
**OR** DSAN Diploma - Health Data Science and Biostatistics Specialization  
**OR** DSAN Diploma - Financial and Energy Markets Data Modelling Specialization

**Additional Comments:**

## Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

Advanced Credit will not normally be given for any of the Data Science and Analytics credentials.

## Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

The expected completion time for the Graduate Diploma in Data Science and Analytics is 8 months (direct entry, full-time), and 4 months or 8 months (part-time) for students laddering from the Graduate Certificate program, depending on the schedule being offered. The maximum completion time for the Graduate Diploma is three years from the start of the program.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all ladderred credentials is six years from the start of the first credential in the laddering process.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Diploma program.

## Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section.

## Overview

General Program Information

The Master of Data Science and Analytics is a continuous program with no scheduled break.

## Specializations:

- Business Analytics
- Data Science
- Health Data Science and Biostatistics
- Financial and Energy Markets Data Modelling

## Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the **GCERT Fund** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the **GDIP Data** program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the Master of Data Science and Analytics within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/data-science-and-analytics-mdsa-course>.

In addition to the Faculty of Graduate Studies [admission requirements](#), all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see [Qualifications](#)). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

Program/Course Requirements
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## Type

### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Master of Data Science and Analytics requires 36 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

**Complete ANY of the following Course Sets:**

- DSAN Diploma - Business Analytics Specialization  
**OR** DSAN Diploma - Data Science Specialization  
**OR** DSAN Diploma - Health Data Science and Biostatistics Specialization  
**OR** DSAN Diploma - Financial and Energy Markets Data Modelling Specialization

**Complete ALL of the following Courses:**

- DATA691 - Integrated Topics in Data Science and Analytics

**Complete at least 1 courses in the following course sets:**

- Master of Data Science Internship

Note: Students who acquire a paid internship are to register in Data 693; students who acquire an unpaid internship are to register in Data 695.

### Additional Comments:

## Additional Program Information

### Type

### Completion Requirement

### Additional Comments:

## Advanced Credit

Advanced Credit will not normally be given for any of the Data Science and Analytics credentials.

## Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

The expected completion time for the Master of Data Science and Analytics is 12 months.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all ladderred credentials is six years from the start of the first credential in the laddering process.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Master's program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/designing-smart-secure-communities-certificate-course-based>.

In addition to Faculty of Graduate Studies requirements for [Admission](#), the Certificate requires the following:

- a) Statement of Interest
- b) Curriculum Vitae

A current copy of the full curriculum vitae demonstrating relevant professional experience.

- c) Reference Letters

Three reference letters.

- d) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); or IELTS score of 7.5; or CAEL overall score of 70, with a minimum score of 70 in each component. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), students are expected to successfully complete 12 units (courses must be taken in the prescribed order):

Complete ALL of the following Courses:

- PLAN640 - Geography of Crime  
**AND** PLAN642 - Designing Safe Communities  
**AND** PLAN644 - Designing Smart Communities  
**AND** PLAN646 - Integrative Project

Additional Comments:

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a Reappraisal of Academic Assessments (Final Grades) within 5 business days of the start of the subsequent term.

Reappraisal of Academic Assessments (Final Grades) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Other Program Information

Type

Completion Requirement

Additional Comments:

## Advanced Credit

Advanced Credit is not given.

## Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Students registered in the Graduate Certificate in Designing Smart and Secure Communities are expected to complete the Certificate in one year. The maximum completion time is two registration years.

### Financial Assistance

Type

Completion Requirement

Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the Awards and Financial Assistance section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

There is a requirement of full-time study for the course-based Master of Arts program.

The work completed in the course-based Master of Arts program is considered equivalent to a major research project and is

# UCalgary

appropriate for students who intend to proceed to doctoral studies.

\*The MA, course-based is a continuous program with no scheduled break.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/economics-master-arts-course-based>.

In addition to Faculties of Graduate Studies [admission requirements](#) and Arts requirements, the Department requires:

- a) A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics [395/495/497](#) (econometrics), Economics [387/389](#) (mathematics for economists), Economics [557](#) (senior microeconomics), and Economics [559](#) (senior macroeconomics), with at least a "B" average in senior economics courses.
- b) International students must hold a four-year degree from a recognized institution. If you received your degree from a university outside Canada, please refer to the country-specific degree requirements: <http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements>.
- c) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

The departmental academic requirements for the course-based Master of Arts degree are comparable to those for the [thesis-based Master of Arts](#). The differences in the course-based program are:

- a) The thesis requirement is replaced by additional 12 units of graduate courses (making a total of 30 units).
- b) The maximal number of courses from a related discipline is increased to 9 units of the elective graduate courses in Economics.
- c) A research paper, which is considered equivalent to a major research project. The topic may be a limited empirical research project, a critical review of the literature in a particular area, or a critical analysis of a theoretical or important policy problem. This paper is completed through [ECON695 Research Methods III](#) and [ECON697 Research Methods IV](#).
- d) An exit requirement consisting of a research defence in an open conference (at the end of Economics 697) and if unsuccessful a comprehensive written examination.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The department of Economics will not permit the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit is not given for undergraduate courses.

## Time Limit

Expected completion time for students studying on a full-time basis is one year for the Master of Arts course-based. Maximum completion time is four years.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

There is a requirement of full-time study for the thesis-based Master of Arts program.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/economics-master-arts-thesis-based>.

In addition to Faculties of Graduate Studies **admission requirements** and Arts requirements, the Department requires:

a) A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics **395/495/497** (econometrics), Economics **387/389** (mathematics for economists), Economics **557** (senior microeconomics), and Economics **559** (senior macroeconomics), with at least a "B" average in senior economics courses.

b) International students must hold a four-year degree from a recognized institution. If you received your degree from a university outside Canada, please refer to the country-specific degree requirements:

<http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements>.

c) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) For students holding an Honours Economics degree with credits in Economics **387, 389, 395, 495, 497, 557, and 559** or their equivalents, the completion of 18 units of graduate-level Economics courses. Such students may be able to complete the degree in one year. In special cases the Department may allow students to substitute a maximum of 6 units from a related discipline for one of the elective graduate courses in Economics.

b) For students without an Honours Economics degree or students whose Honours degree in Economics does not include the undergraduate courses specified in (a) or their equivalents, the completion of such courses as are required to raise their competence to the appropriate level. Graduate course requirements for such students are the same as in (a). Such students may be able to complete the degree in two years.

c) The completion of **ECON615 Econometrics**, **ECON657 Microeconomic Theory** and **ECON659 Macroeconomic Theory** unless one or more of them is explicitly exempted by the graduate program director.

Students, with the approval of the graduate program director, may replace Economics 615, 657 and 659 with **ECON705 Advanced Econometrics I/ECON715 Advanced Econometrics II**, **ECON707 Adv Microeconomic Theory I/ECON757 Advanced Microeconomic Theory II** and **ECON709 Adv Macroeconomic Theory I/ECON759 Advanced Macroeconomics Theory II** respectively.

d) Successful completion and examination of the MA thesis (in accord with examination procedures of the Faculty of Graduate Studies).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Economics will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit is not given for undergraduate courses.

## Time Limit

Expected completion time for students studying on a full-time basis is two years for the Master of Arts thesis-based. Maximum completion time is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The process by which students are matched with supervisors is an informal one, based on mutual research interest.

## Research Proposal Requirements

Information on research proposals is available from the interim advisor/grant mentor/supervisor.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

To be eligible for funding beyond the first year, a student must pass field of study exams in microeconomics and macroeconomics by the beginning of classes of their second year. To be eligible for funding beyond the Fall Term of the third year, a student must receive a passing grade on their second-year research paper and their oral thesis proposal by the beginning of Winter Term in their third year.

## Overview

### General Program Information

There is a requirement of full-time study for the doctoral program.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <http://econ.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/economics-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies [admission requirements](#) and Arts requirements, the Department requires:

- a) A minimum of 24 units of economics courses. These must include the following University of Calgary courses or their equivalents: Economics [395/495/497](#) (econometrics), Economics [387/389](#) (mathematics for economists), [Economics 557](#) (senior microeconomics), and [Economics 559](#) (senior macroeconomics), with at least a “B” average in senior economics courses. Doctoral candidates may require greater proficiency in Mathematics.
- b) A Master of Arts degree in Economics or its equivalent, with a high level of proficiency in Microeconomic Theory, Macroeconomic Theory, and Econometrics. If courses have been taken more than five years ago, students may be required to upgrade their knowledge in these fields.
- c) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

The Department of Economics requires that doctoral students take 36 units. Required courses include two courses each in econometrics, [ECON705 Advanced Econometrics I](#) and [ECON715 Advanced Econometrics II](#), microeconomic theory, [ECON707 Adv Microeconomic Theory I](#) and [ECON757 Advanced Microeconomic Theory II](#), and macroeconomic theory, [ECON709 Adv Macroeconomic Theory I](#) and [ECON759 Advanced Macroeconomics Theory II](#). In addition, students must take 18 units in “field” areas. Doctoral students must also write and pass a second-year research paper prior to scheduling the Thesis Proposal Oral Examination. For further information see the website: <http://econ.ucalgary.ca/graduate/resources-current-students>.

Students are also recommended to take a non-credit one-week course in the Fall Session Block Week (the week prior to the start of classes) of the first year in Mathematical Economics.

The Department allows for the possibility that master's-level courses and course work taken at other institutions may be substituted for some of the required doctoral courses. Decisions concerning course substitutions and the transferability of graduate courses from other institutions are made on a case-by-case basis. Students are advised that the required comprehensive field of study exams in microeconomics, macroeconomics, and econometrics include material from the core courses listed above.

Graduate students must obtain a grade standing of “B” or better in graduate course work. A grade of “B-” or less will trigger a departmental review of the student's suitability for the graduate program and may result in a loss of funding.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for

admission.

### Flexible Grade Option (CG Grade)

The department of Economics will not permit the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit is not given for undergraduate courses.

### Time Limit

Expected completion time for students studying on a full-time basis is five years for the Doctor of Philosophy. Maximum completion time is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The process by which students are matched with supervisors is an informal one, based on mutual research interest.

### Research Proposal Requirements

Information on research proposals is available from the interim advisor/grant mentor/supervisor.

### Required Examinations

In addition to the Faculty of Graduate Studies requirements for **Candidacy** and **Thesis Examinations**, the Department requires:

#### Candidacy

Candidacy must be completed within 28 months from the program start date.

Admission to candidacy is an acknowledgement that a student is fully prepared to devote their full attention to the thesis research.

To enter into candidacy, students must: (1) successfully complete all required courses, (2) pass the microeconomics, macroeconomics and econometrics comprehensive field of study exams, (3) pass the second-year paper requirement, and (4) have their thesis proposal approved by the Supervisory Committee. For further information, please consult the Department of Economics website: <https://econ.ucalgary.ca/graduate/resources-current-students>.

Students who do not pass their candidacy requirements by the twenty-eighth month of their program may be required to withdraw from the program. A full description of all candidacy requirements is available at:

<https://econ.ucalgary.ca/graduate/resources-current-students>.

#### Thesis Examination

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is available to qualified students. Departmental funding is determined at the time of admission. See the Department of Economics Funding Opportunities website: <http://econ.ucalgary.ca/graduate/funding-opportunities-0>.

For information on awards, please see the Awards and Financial Assistance section of this Calendar. Students applying for scholarships must submit their applications to the Department by January 15.

To be eligible for funding beyond the first year, a student must pass field of study exams in microeconomics and macroeconomics by the beginning of classes of their second year. To be eligible for funding beyond the Fall Term of the third year, a student must receive a passing grade on their second-year research paper and their oral thesis proposal by the beginning of Winter Term in their third year.

## Overview

### General Program Information

Blended delivery: online and blended courses with some face-to-face/on-campus meeting times at the University of Calgary main campus.

### Specializations:

- Adult Learning
- Curriculum and Learning
- Language and Literacy
- Leadership
- Learning Sciences

### Online Graduate Programs

Graduate Programs in Education offers online graduate programs via the web and other multi-media components to local, regional, national, and international communities. Programs include the thesis-based Doctor of Education (EdD), course-based Master of Education (MEd), Graduate Diploma and Graduate Certificate. Topics within each of these are offered in direct response to the needs of working professionals in a variety of settings including administrators, program directors, and deans in colleges and institutes of technology.

Contact: <mailto:gpe@ucalgary.ca> or 403.220.5675 or toll free in Canada (877) 623-0292.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/educational-research-edd>.

In addition to the Faculty of Graduate Studies admission requirements, Graduate Programs in Education requires:

- a) A course or thesis-based master's degree in an appropriate field.
- b) A minimum grade point average of 3.50 on a four-point scale in a master's degree program.
- c) A written statement indicating the applicant's reasons for wishing to pursue a graduate program.
- d) Candidates will be expected to have, or obtain, relevant practical experience in their area of specialization.
- e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- f) Two references. Referees will be asked to complete an online reference form.
- 

### Admission Portfolio

Applicants to the Doctor of Education program are encouraged to submit an Admission Portfolio containing examples of their work. The purpose of the Admission Portfolio is to give applicants the opportunity to provide additional documentation that demonstrates their suitability and qualification for doctoral studies. The Admission Portfolio is particularly relevant for program applicants who do not hold a thesis-based master's degree.

The Doctoral Admission Portfolio may contain the following:

- a) Thesis (if applicable).
- b) Reports.
- c) Research grants or scholarships.
- d) Articles.
- e) Curriculum documents.
- f) Non-print materials, e.g., multimedia.
- g) Evidence of relevant prior learning (see below).
- h) Personal statement documenting research and professional skills and interests.

The Doctoral Admission Portfolios must include a Table of Contents and an Executive Summary that outlines the contents of the Portfolio.

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### Relevant Prior Learning Considerations

In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to the program. The candidates must provide Graduate Programs in Education with evidence demonstrating a potential to undertake successfully the proposed program of studies. Such candidates are advised to make early contact with Graduate Programs in Education, and supply additional supporting documents as part of their application package, such as:

- a) Evidence of personal continuing education/training.
- b) Results in these continuing education efforts.
- c) Experience in a field related to the aspired degree.
- d) Evidence of successful management of people, resources, finances, situations.
- e) Increasing or varying responsible positions in organizations related to the aspired degree.
- f) Work-related products, e.g. reports, programs of learning or training, handbooks, videos, manuals, workshops, seminars.
- g) Evidence of personal growth in knowledge, understanding, management skills, and intellectual resources.
- h) Evidence of innovation.
- i) Evidence of leadership or co-ordination responsibilities.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

##### Complete ALL of the following Courses:

- EDER711 - Advanced Research Methodologies I  
**AND** EDER712 - Advanced Research Methodologies II  
**AND** EDER707 - Collaboratory of Practice I  
**AND** EDER708 - Collaboratory of Practice II  
**AND** EDER709 - Dissertation Seminar I  
**AND** EDER710 - Dissertation Seminar II
- Plus 12 units in the student's specialization area at the 700-level.

Note: EDER 709 and 710 are to be completed post-candidacy.

##### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

### Time Limit

Expected completion for students in the EdD program is four years with a maximum completion time of six years.

#### Supervisory Assignments and Required Examinations

##### Type

##### Completion Requirement

##### Additional Comments:

### Supervisory Assignments

A supervisor is normally appointed at the time of admission.

## Required Examinations

### Candidacy

Admission into Candidacy in the Werklund School of Education Graduate Programs: 1) requires that students have abilities to conceptualize, interpret, critique and synthesize comprehensive, substantive knowledge that is relevant to the discipline and practice of educational research; and 2) ensures that students have a well-developed plan for their dissertation research, a sound proposal with a well-developed research question, and consideration of ethical issues that demonstrate the ability to pursue and complete original independent research at the doctoral level.

In compliance with the Faculty of Graduate Studies [Candidacy Regulations](#), the requirements for Admission to Candidacy at the Werklund School of Education is a 4 stage process:

1. Completion of all course requirements as identified in the calendar;
2. Field of study (FoS) written paper;
3. A research proposal approved by the Supervisory Committee (recognizing changes may be made after successful completion of the Candidacy exams);
4. An oral examination of the research proposal;

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRISS](#).

All Candidacy requirements must be completed within 28 months of the start of the program.

For further information, please consult the Graduate Programs in Education [website](#).

### Thesis

The Doctoral thesis is the focus of the degree program. In consultation with the supervisor, the student should formulate an appropriate thesis topic as early as possible in the program.

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have approved the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Graduate Certificate (Interdisciplinary Studies) is the first credential in a three-stage, ladder pathway consisting of:

1. Graduate Certificate

## 2. GDIP Educa

## 3. MEd Ed Res

The Graduate Certificate, Graduate Diploma and Master of Education are continuous programs with no scheduled breaks.

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Students who complete the Graduate Certificate and the Graduate Diploma and who are subsequently accepted into the Master of Education program will be granted 24 units of laddering credit towards the Master's degree. A direct entry into a 24-unit Graduate Diploma may be possible with the approval of Graduate Programs in Education.

Topics for the Graduate Certificate and Graduate Diploma courses are designed in response to the professional community and therefore change year to year. For topics being offered and program delivery format for Graduate Certificates and Graduate Diplomas, please consult the Graduate Programs in Education [website](#).

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Students following the MEd Interdisciplinary laddered pathway must apply at each stage; first, to the Graduate Certificate, then to the Graduate Diploma and finally to the Master of Education, with no more than five years between each stage.

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### Online Graduate Programs

Graduate Programs in Education offers online graduate programs via the web and other multi-media components to local, regional, national, and international communities. Programs include the thesis-based Doctor of Education (EdD), course-based Master of Education (MEd), Graduate Diploma and Graduate Certificate. Topics within each of these are offered in direct response to the needs of working professionals in a variety of settings including administrators, program directors, and deans in colleges and institutes of technology.

Contact: [gpe@ucalgary.ca](mailto:gpe@ucalgary.ca) or 403.220.5675 or toll free in Canada (877) 623-0292.

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Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: [mailto:gpe@ucalgary.ca](mailto:mailto:gpe@ucalgary.ca)

Web page URL: <http://werklund.ucalgary.ca/gpe/>

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## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-education-interdisciplinary-course-based>.

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In addition to the Faculty of Graduate Studies admission requirements, the Office of Graduate Programs in Education requires:

- a) A University of Calgary four-year baccalaureate degree or an equivalent degree from a recognized institution. Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- c) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

d) Two references are required to apply to the graduate certificate. Referees will be asked to complete an online reference form. Please note that references are not required for previously admitted students seeking admission to the Graduate Diploma or Master of Education (Interdisciplinary Studies).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

The Graduate Certificate requires 12 units in [Educational Research courses](#).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the application process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate credentials.

### Time Limit

The expected completion time is one year for each of the program credentials in the ladder pathway to a maximum of two years for each of the Graduate Certificate, Graduate Diploma and Master of Education.

### Academic Coordinator Assignments

An academic coordinator is assigned to the cohort of students in the course-based Master of Education program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Graduate Diploma (Interdisciplinary Studies) is the second credential in a three-stage, ladder pathway consisting of:

1. **GCERT Educ**

2. Graduate Diploma

3. **MEd Ed Res**

The Graduate Certificate, Graduate Diploma and Master of Education are continuous programs with no scheduled breaks.

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Students who complete the Graduate Certificate and the Graduate Diploma and who are subsequently accepted into the Master of Education program will be granted 24 units of laddering credit towards the Master's degree. A direct entry into a 24-unit Graduate Diploma may be possible with the approval of Graduate Programs in Education.

Topics for the Graduate Certificate and Graduate Diploma courses are designed in response to the professional community and therefore change year to year. For topics being offered and program delivery format for Graduate Certificates and Graduate Diplomas, please consult the Graduate Programs in Education [website](#).

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Students following the MEd Interdisciplinary ladder pathway must apply at each stage; first, to the Graduate Certificate, then to the Graduate Diploma and finally to the Master of Education, with no more than five years between each stage.

### Online Graduate Programs

Graduate Programs in Education offers online graduate programs via the web and other multi-media components to local, regional, national, and international communities. Programs include the thesis-based Doctor of Education (EdD), course-based Master of Education (MEd), Graduate Diploma and Graduate Certificate. Topics within each of these are offered in direct response to the needs of working professionals in a variety of settings including administrators, program directors, and deans in colleges and institutes of technology.

Contact: [gpe@ucalgary.ca](mailto:gpe@ucalgary.ca) or 403.220.5675 or toll free in Canada (877) 623-0292.

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Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-education-interdisciplinary-course-based>.

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In addition to the Faculty of Graduate Studies admission requirements, the Office of Graduate Programs in Education requires:

- a) A University of Calgary four-year baccalaureate degree or an equivalent degree from a recognized institution. Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

d) Two references are required to apply to the graduate certificate. Referees will be asked to complete an online reference form. Please note that references are not required for previously admitted students seeking admission to the Graduate Diploma or Master of Education (Interdisciplinary Studies).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

The Graduate Diploma requires 12 additional units in Educational Research courses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the application process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate credentials.

### Time Limit

The expected completion time is one year for each of the program credentials in the ladder pathway to a maximum of two years for each of the Graduate Certificate, Graduate Diploma and Master of Education.

### Academic Coordinator Assignments

An academic coordinator is assigned to the cohort of students in the course-based Master of Education program.

#### Financial Assistance

##### Type

## Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Master of Education in Educational Research with a specialization in either Interdisciplinary Studies or School Counselling is a three-stage, ladder pathway consisting of:

1. [GCERT Educ](#)
2. [GDIP Educa](#)
3. Master of Education

### Specializations:

- Interdisciplinary Studies
- School Counselling

Students following the MEd ladder pathway must apply at each stage; first, to the Graduate Certificate, then to the Graduate Diploma and finally to the Master of Education, with no more than five years between each stage.

Students who complete the Graduate Certificate and the Graduate Diploma and who are subsequently accepted into the Master of Education program will be granted 24 units of ladder credit towards the Master's degree. A direct entry into a 24-unit Graduate Diploma may be possible with the approval of Graduate Programs in Education.

Topics for the Graduate Certificate and Graduate Diploma courses are designed in response to the professional community and therefore change year to year. For topics being offered and program delivery format for Graduate Certificates and Graduate Diplomas, please consult the Graduate Programs in Education [website](#).

The Graduate Certificate, Graduate Diploma and Master of Education are continuous programs with no scheduled breaks.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-education-interdisciplinary-course-based>.

In addition to the Faculty of Graduate Studies admission requirements, the Office of Graduate Programs in Education requires:

- a) A University of Calgary four-year baccalaureate degree or an equivalent degree from a recognized institution. Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

d) Two references are required to apply to the graduate certificate. Referees will be asked to complete an online reference form. Please note that references are not required for previously admitted students seeking admission to the Graduate Diploma or Master of Education (Interdisciplinary Studies).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

The degree consists of a three-stage ladder pathway: Graduate Certificate, Graduate Diploma, and the Master of Education.

#### The Master of Education, with a specialization in Interdisciplinary Studies requires:

- 12 units of coursework in an available topic area\* in the **GCERT Educ**; and
- 12 units of coursework in an available topic area\* in the **GDIP Educa**; and
- 12 additional units of Educational Research courses: **EDER600 Research Methodology Education**, **EDER602 Program & Practice Evaluation**, **EDER604 Collaboratory of Practice**, **EDER606 Writing Educational Research**.

#### The Master of Education with a specialization in School Counselling requires:

- 12 units of coursework in the Foundations of School and Counselling Psychology topic area in the **GCERT Educ**; and
- 12 units of coursework in any one of the following topic areas\* in the **GDIP Educa**:
  - Mental Health and Wellbeing in Schools: Social Justice in Practice
  - Supporting and Enhancing Children's Mental Health
- 12 additional units of Educational Research courses: **EDER650 ProfEthcsSchlBsdWllbngGdncCnsl**, **EDER652 Spprtng Stdnrs Asprtn in Schl**, **EDER654 Exmn Implmt Adpt Mod MntlH I**, **EDER656 Exmn Implmt Adpt Mod MntlH II**.

\*Not all topic areas are offered every year. For availability, consult the Werklund School of Education [website](#).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants to the Graduate Certificate must make **Advanced Credit** requests as part of the application process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The expected completion time is one year for each of the program credentials in the laddered pathway to a maximum of two years for each of the Graduate Certificate, Graduate Diploma and Master of Education.

## Academic Coordinator Assignments

An academic coordinator is assigned to the cohort of students in the course-based Master of Education program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

On campus, where some courses are on campus and some courses are online. Online courses are less than 50% of the total program.

### Specializations:

- Adult Learning
- Curriculum and Learning
- Language and Literacy
- Leadership
- Learning Sciences

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werklund.ucalgary.ca/gpe/>

## Admissions

# UCalgary

## Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-arts-thesis-based>.

In addition to the Faculty of Graduate Studies **Admission Requirements**, Graduate Programs in Education requires:

- a) A written statement indicating the applicant's reasons for wishing to pursue a graduate program.
- b) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- c) Two references. Referees will be asked to complete an online reference form.
- d) Admission to the Learning Sciences specialization requires a 3.50 GPA.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the requirements of the Faculty of Graduate Studies, the Program requires:

- a) **EDER608 Research Methods in Education** and 3 units from any other 600-level thesis-based research methods in education course.
- b) Additional graduate courses or seminars as required by specializations (see below) and any additional courses as determined by the supervisor in consultation with the student.
  - Adult Learning requires 12 units selected from the Adult Learning courses;
  - Curriculum and Learning requires 9 units selected from the Curriculum and Learning courses;
  - Language and Literacy requires 9 units selected from the Language and Literacy courses;
  - Leadership requires 12 units selected from the Leadership and Policy courses;
  - Learning Sciences requires 6 units selected from the Learning Sciences courses, and 6 additional units from any other Educational Research specialization.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.  
The use of the CG grade will affect students' eligibility for internal awards.

## Credit For Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

Expected completion time for full-time students is two years in thesis-based master's programs. Maximum completion time is four years for thesis-based master's programs.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

A supervisor is normally appointed at the time of admission.

A supervisory committee, approved by the Graduate Program Director, is required for MA or MSc students choosing the manuscript-based thesis route. Normally, the committee will consist of the supervisor and two members (see [Supervision](#)).

### Research Proposal Requirements

Information on research proposals is available through the supervisor.

Ethics approval is required for all research projects involving the use of human subjects before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRISS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRISS](#).

### Required Examinations

#### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have approved the student's draft thesis document before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar and the Graduate Awards and Scholarships page of the Werklund School of Education [website](#).

## Overview

### General Program Information

Please note: This degree requires a two year full-time residency. Students must be available during the day to attend research seminars, courses, and to perform teaching and research related duties at the university campus for the first two years of their program.

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### Specializations:

- Adult Learning
- Curriculum and Learning
- Language and Literacy
- Leadership
- Learning Sciences

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Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/educational-research-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies **Admission Requirements**, Graduate Programs in Education requires:

- A thesis-based master's degree in an appropriate field. Outstanding applicants holding master's degrees without thesis may be considered.
- A minimum grade point average of 3.50 on a four-point scale in a master's degree program.
- A written statement indicating the applicant's reasons for wishing to pursue a graduate program.
- Where appropriate, candidates will be expected to have, or to obtain, relevant practical experience in their area of specialization.
- For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- Two references. Referees will be asked to complete an online reference form.

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## Admission Portfolio

Applicants to the Doctor of Philosophy program are encouraged to submit an Admission Portfolio containing examples of their work. The purpose of the Admission Portfolio is to give applicants the opportunity to provide additional documentation that demonstrates their suitability and qualification for doctoral studies. The Admission Portfolio is particularly relevant for program applicants who do not hold a thesis-based master's degree.

The Doctoral Admission Portfolio may contain the following:

- a) Thesis (if applicable).
- b) Reports.
- c) Research grants or scholarships.
- d) Articles.
- e) Curriculum documents.
- f) Non-print materials, (e.g. multimedia).
- g) Evidence of relevant prior learning (see below).
- h) Personal statement documenting research skills and interests.

The Doctoral Admission Portfolio must include a Table of Contents and an Executive Summary that outlines the contents of the Portfolio.

## Relevant Prior Learning Considerations

In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to the program. The candidates must provide Graduate Programs in Education with evidence demonstrating a potential to undertake successfully the proposed program of studies. Such candidates are advised to make early contact with Graduate Programs in Education, and supply additional supporting documents as part of their application package, such as:

- a) Evidence of personal continuing education/training.
- b) Results in these continuing education efforts.
- c) Experience in a field related to the aspired degree.
- d) Evidence of successful management of people, resources, finances, situations.
- e) Increasing or varying responsible positions in organizations related to the aspired degree.
- f) Work-related products, e.g. reports, programs of learning or training, handbooks, videos, manuals, workshops, seminars.
- g) Evidence of personal growth in knowledge, understanding, management skills, and intellectual resources.
- h) Evidence of innovation.
- i) Evidence of leadership or co-ordination responsibilities.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the requirements of the Faculty of Graduate Studies, Graduate Programs in Education requires that students be available on campus for the first two years of their program.

a) **EDER702 Sem First-Year Dctrl Stdnt I** and **EDER704 Sem First-Year Dctrl Stdnt II**;

b) Additional 9 units of 700-level thesis-based courses in research methods (excluding EDER 707, 708, 709, 710, 711 and 712);

c) Additional graduate courses or seminars as required by the student's specialization. Courses may be selected from any 700-level Education Research courses:

- Adult Learning requires 9 units which must focus on Adult Learning;
- Curriculum and Learning requires 9 units which must focus on Curriculum and Learning;
- Language and Literacy requires 9 units which must focus on Language and Literacy;
- Leadership requires 9 units which must focus on Leadership and Policy;

- Learning Sciences requires 9 units which must focus on Learning Sciences.

d) Any additional courses as determined by the supervisor in consultation with the student.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit request as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit For Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

### Time Limit

Expected completion time for full-time students is four years with a maximum completion time of six years.

#### Supervisory Assignment and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

A supervisor is normally appointed at the time of admission.

### Required Examinations

#### Candidacy

Admission into Candidacy in the Werklund School of Education Graduate Programs: 1) requires that students have abilities to conceptualize, interpret, critique and synthesize comprehensive, substantive knowledge that is relevant to the discipline and practice of educational research; and 2) ensures that students have a well-developed plan for their dissertation research, a sound proposal with a well-developed research question, appropriate methodology, and consideration of ethical issues that demonstrate the ability to pursue and complete original independent research at the doctoral level.

In compliance with the Faculty of Graduate Studies Candidacy Regulations, the requirements for Admission to Candidacy at the Werklund School of Education is a 4-stage process:

1. Completion of all course requirements as identified in the calendar;
2. Field of study (FoS) written paper;
3. A research proposal approved by the Supervisory Committee (recognizing changes may be made after successful completion of the Candidacy exams);

## 4. An oral examination of the research proposal;

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRISS](#).

All Candidacy requirements must be completed within 28 months of the start of the program.

For further information, please consult the Graduate Programs in Education [website](#).

## Thesis

The Doctoral thesis is the focus of the degree program. In consultation with the supervisor, the student should formulate an appropriate thesis topic as early as possible in the program because the thesis proposal affects the choice and number of courses needed in order to complete the program.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have approved the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Adult Learning
- Curriculum and Learning
- Language and Literacy
- Leadership
- Learning Sciences

Online and blended courses with some face-to-face on-campus meeting times at the University of Calgary.

For current specialization areas being offered and program delivery format, please consult the [website](#).

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-education-specialist-course-based>.

In addition to the Faculty of Graduate Studies admission requirements, Graduate Programs in Education requires:

- a) A University of Calgary four-year baccalaureate degree or an equivalent degree from a recognized institution. Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- c) A written statement indicating the applicant's reasons for pursuing a graduate program in Graduate Programs in Education.
- d) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- e) Two references. Referees will be asked to complete an online reference form.

## Relevant Prior Learning Considerations

In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to the program. The candidates must provide the relevant graduate program with evidence demonstrating a potential to undertake successfully the proposed program of studies. Such candidates are advised to make early contact with Graduate Programs in Education, and supply additional supporting documents as part of their application package, such as:

- a) Evidence of personal continuing education/training.
- b) Results in these continuing education efforts.
- c) Experience in a field related to the aspired degree.
- d) Evidence of successful management of people, resources, finances, situations.
- e) Increasing or varying responsible positions in organizations related to the aspired degree.
- f) Work-related products, e.g. reports, programs of learning or training, handbooks, videos, manuals, workshops, seminars.
- g) Evidence of personal growth in knowledge, understanding, management skills, and intellectual resources.
- h) Evidence of innovation.
- i) Evidence of leadership or co-ordination responsibilities.
- j) Evidence of academic writing.

## Program Details

### Simple Requisites

Program/Course Requirements
Type
Completion Requirement

The MEd Specialist route is a two or three-year, cohort-based, course-based program.

**Complete ALL of the following Course Sets:**

- EDER MEd Course Set
- Plus 24 units in the student's area of Specialization.

**Additional Comments:**

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit For Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

Expected completion time is two or three years, per admission cohort. Maximum completion time is six years for a course-based master's program.

## Academic Coordinator Assignments

An academic coordinator is assigned to the cohort of students in the course-based Master of Education program.

## Financial Assistance

### Type

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Please note that Graduate Programs in Education is not admitting students to the MEd with specialization in Counselling Psychology this year.

## Admissions

## Program Details

## Overview

### General Program Information

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

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The MSc in Educational Psychology with specialization in Counselling Psychology is delivered on-campus.

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Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/counselling-psychology-master-science-thesis-based>.

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In addition to the Faculty of Graduate Studies requirements, entry requirements for the Counselling Psychology Master of Science program include:

a) A four-year undergraduate degree with a minimum grade point average of 3.00 over the courses taken during the last two years of study.

b) Normally, a minimum of 24 units in Educational Psychology and/or Psychology. This must include:

One undergraduate statistics courses;

A senior undergraduate psychology or educational psychology course in the area of Communication Skills in Guidance and Counselling, or its equivalent, Working Alliance;

A senior undergraduate Psychology or Educational Psychology course in each of (a) cognitive psychology/learning theory, (b) social psychology, (c) biological bases of behaviour, and (d) developmental psychology.

c) A curriculum vitae including information about previous employment and volunteer experience, and a concise rationale for the application (500 words or less) including a description of the applicant's research interests and potential supervisors from within the counselling psychology program area, if applicable.

d) Two academic references; one of which is from the undergraduate honours supervisor, if an honours degree was completed. Optionally, a third reference from someone who has supervised the applicant in counselling-related employment or volunteer work.

e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

Note: A completed **Pre-Admissions Checklist** is required as part of the admissions process.

## Program Details

### Simple Requisites

Program/Course Requirements
<b>Type</b> Completion Requirement
<p>In addition to the Faculty of Graduate Studies requirements, the MSc Counselling Psychology program requires the following:</p> <p>42 units of course work that includes:</p> <p><b>Complete ALL of the following Courses:</b></p> <ul style="list-style-type: none"> <li>EDPS600 - Theories , Conceptualizations, and Interventions in Counselling Psychology I  <b>AND</b> EDPS601 - Theories, Conceptualizations, and Interventions in Counselling Psychology II  <b>AND</b> EDPS609 - Research Design in Statistics II  <b>AND</b> EDPS614 - Ethics in Professional Psychology  <b>AND</b> EDPS615 - Theoretical and Clinical Foundations of Assessment  <b>AND</b> EDPS625 - Cultural Influences on Professional Practice  <b>AND</b> EDPS631 - Theories of Career Development</li> </ul>
<p><b>Complete at least 1 of the following courses:</b></p> <ul style="list-style-type: none"> <li>EDPS611 - Qualitative Research Methodologies  <b>OR</b> EDPS618 - Multivariate Design and Analysis</li> </ul>
<p><b>Complete at least 1 of the following courses:</b></p> <ul style="list-style-type: none"> <li>EDPS627 - Group Processes in Applied Psychology  <b>OR</b> EDPS637 - Relationship Counselling</li> </ul>
<p><b>Complete at least 1 of the following courses:</b></p> <ul style="list-style-type: none"> <li>EDPS628 - Theories and Applications of Child and Youth Therapy  <b>OR</b> EDPS645 - Indigenous Approaches to Therapy</li> </ul>
<p><b>Complete at least 1 of the following courses:</b></p> <ul style="list-style-type: none"> <li>EDPS617 - Psychological Assessment of Adults</li> </ul>

**OR EDPS620 - Psychological Assessment of Children and Youth**

Complete ALL of the following Courses:

- EDPS647 - Practicum in Counselling Psychology I
- AND** EDPS640 - Practicum in Counselling Psychology II

**Additional Comments:**

## Police Information Check

All successful applicants to the Werklund School of Education Counselling Psychology program are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC requirement" declaration form prior to the start of the program. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than June 30, and students will be required to request a new Police Information Check every year in which they enroll in a practicum course (Educational Psychology 640, 647). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum. Successful completion of Practicum is required for graduation.

Students are obligated to inform the Faculty immediately of any change in status of their criminal record.

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate Programs in Education do not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Master of Science requires two years of full-time study to complete. Maximum time allowed for completion of the Master of Science degree is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An interim advisor is assigned to each first-year student in a thesis-based program. Students are responsible for initiating discussions with potential permanent supervisors and are expected to have finalized supervisory arrangements by their second annual registration.

A supervisory committee, approved by the Graduate Program Director, is required for MSc students choosing the manuscript-based thesis route. Normally, the committee will consist of the supervisor and two members (see [Supervision](#))

## Research Proposal Requirements

Information on research proposals is available through the interim advisor/supervisor.

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRIS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRIS](#).

## Required Examinations

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education by the posted deadline dates for individual awards as noted at <https://werkland.ucalgary.ca/graduate-programs/awards>.

Graduate Programs in Education also provides assistance for students through teaching assistantships, graduate research scholarships and other scholarships. Application forms and deadline information for these awards can be obtained from Graduate Programs in Education.

## Overview

General Program Information

# UCalgary

## General Program Information

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

Note: The Doctoral Program in Educational Psychology with specialization in Counselling Psychology has been granted accreditation by the Canadian Psychological Association (CPA) since 2011.

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Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/counselling-psychology-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies [admission requirements](#), entry requirements include:

a) A completed thesis-based master's degree in Counselling Psychology or equivalent from an approved university, with a minimum grade point average of 3.50 in the master's program, including 500 hours of practicum, with a minimum of 400 hours (200 direct client contact hours) completed under the supervision of a registered psychologist.

Note: If coursework or practicum from an applicant's master's program is not equivalent to the Master of Science in Counselling Psychology at the University of Calgary, the student may be admitted as a qualifying student (see [G.A.3 Admission Categories](#)). A qualifying student is required to take additional courses within the doctoral program to ensure equivalent training.

b) Two senior undergraduate or one graduate course (3 units each) in (i) biological bases of behaviour, (ii) cognitive-affective bases of behaviour, (iii) social bases of behaviour, and (iv) individual behaviour.

c) One senior undergraduate or one graduate course in the historical and scientific foundations of general psychology.

d) One graduate course in Indigenous Approaches to therapy ([EDPS645 Indigenous Approaches Therapy](#)) or equivalent.

Note: Students may be considered for admission to the PhD program in Counselling Psychology if up to 12 units of prerequisite courses outlined in b), c) and d) have not been completed at the time of application. Prerequisite coursework must be completed before the doctoral candidacy examination.

e) A curriculum vitae including information about previous employment and volunteer experience, and a concise rationale (500 words or less) for the application including a description of the applicant's research interests and potential supervisors from within the counselling psychology program area, if applicable.

f) Three references: two academic references and one from someone who has provided clinical supervision for the applicant (e.g., a practicum supervisor). It is recommended that one of the academic references be the applicant's master's thesis supervisor or a professor who is familiar with the applicant's thesis research.

g) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course. The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code **0813**.

Note: A completed [Pre-Admissions Checklist](#) is required as part of the admissions process.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies requirements, the degree program requires the following:

a) 24 units of course work at the doctoral level that includes:

i. [EDPS706 Adv Rsrch Sem Counsell Psyc I](#) and [EDPS707 Adv Rsrch Sem Counsell Psyc II](#) and an additional 3-unit course in research methods at 600 or 700 level as approved by the supervisor;

ii. [EDPS712 Program Evaluation & Consult I](#), [EDPS713 Program Evaluatn & Consult II](#) and [EDPS731 Adv Clin Supervision App Psyc](#);

iii. Practicum courses: [EDPS752 Advanced Practicum Counsell I](#) and [EDPS753 Advanced Practicum Counsell II](#); and [EDPS772 Adv Pract Psycholog Assess I](#) and [EDPS773 Adv Pract Psycholog Assess II](#). Note Police Information Check below.

b) A twelve-month full-time internship. Completion of this requirement will be recorded on the student transcript as a milestone. Note section 6 Police Information Check below.

Course content addresses theory, research, and practice in the domains identified by the Canadian Psychological Association (CPA) for accreditation of doctoral programs in professional psychology.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Police Information Check

All successful applicants to the Werklund School of Education Counselling Psychology program are required to provide a current Police Information Check (obtained from their nearest police service or RCMP attachment in the area where they reside), which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC Requirement" declaration form prior to the start of the program. In order to be considered "current", the Police Information Check must be completed no earlier than June 30 and students will be required to request a new Police Information Check every year in which they enroll in a practicum or internship (Educational Psychology 752, 753, 772 and 773). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum or internship.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum and internship placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum or Internship. Successful completion of both Practicum and Internship are required for graduation.

Students are obligated to inform the Faculty immediately of any change in the status of their criminal record.

## Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Doctor of Philosophy degree is designed to be completed in four years. Maximum completion time allowed is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

An interim advisor is assigned to each first-year student in a thesis-based program. Students are responsible for initiating discussions with potential permanent supervisors and are expected to have finalized supervisory arrangements by their second annual registration.

## Research Proposal Requirements

Information on research proposals is available through the interim advisor/supervisor.

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRIS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRIS](#).

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for [candidacy](#) and [thesis examinations](#), the program requires:

## Candidacy

Admission into Candidacy in the Werklund School of Education Graduate Programs: 1) requires that students have abilities to conceptualize, interpret, critique and synthesize comprehensive, substantive knowledge that is relevant to the discipline and practice of educational psychology; and 2) ensures that students have a well-developed plan for their dissertation research, a sound proposal with a well-developed research question and potential for the ability to pursue and complete original independent research at the doctoral level.

In compliance with the Faculty of Graduate Studies Candidacy Regulations, the requirements for Admission to Candidacy at the Werklund School of Education is a four-stage process:

- Completion of all course requirements as identified in the calendar;
- Field of study (FoS) written paper;
- A research proposal approved by the Supervisory Committee (recognizing changes may be made after successful completion of exams prior to submission for ethics approval);
- An oral examination of the research proposal.

All Candidacy requirements must be completed within 28 months of the start of the program.

For further information, please consult the Graduate Programs in Education [website](#).

## Thesis

The doctoral thesis is the focus of the degree program. In consultation with the supervisor, the student should formulate an appropriate thesis topic as early as possible in the program because the thesis proposal affects the choice and number of courses needed in order to complete the program.

## Thesis Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education office by the posted deadline dates for individual awards as noted at <https://werkklund.ucalgary.ca/graduate-programs/awards>.

Graduate Programs in Education also provides assistance for students through teaching assistantships, graduate research scholarships and other scholarships. Application forms and deadline information for these awards can be obtained from Graduate Programs in Education.

## Overview

### General Program Information

Admissions to this program are suspended as of July 1, 2018.

Master of Counselling (MC) with specialization in Counselling Psychology, course-based - blended delivery: online and blended courses with some face-to-face/on-campus meeting times at the University of Calgary main campus.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: [gpe@ucalgary.ca](mailto:gpe@ucalgary.ca)

Web page URL: [werkklund.ucalgary.ca/gpe](http://werkklund.ucalgary.ca/gpe)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/counselling-psychology-master-counselling-course-based](http://ucalgary.ca/future-students/graduate/explore-programs/counselling-psychology-master-counselling-course-based).

In addition to the Faculty of Graduate Studies **admission** requirements, entry requirements include:

- a) A minimum of 9 units in Psychology or Educational Psychology, including one course each in human development and learning. In addition, applicants are required to have a senior undergraduate Psychology or Educational Psychology course in the area of Communication Skills in Guidance and Counselling, or its equivalent, Communication Skills – Interpersonal and Verbal Facilitation. All prerequisite coursework must be completed with a grade of "B-" or above.
- b) A curriculum vitae and a concise rationale for the application (500 words or less).
- c) Two references; either academic or practice supervisor.
- d) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code **0813**.

- e) Paid employment or volunteer work in counselling-related and research-related roles will be an asset.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies **requirements**, the MC Counselling Psychology program requires the following:

A total of 45 units of course work that includes:

**Complete ALL of the following Courses:**

- EDPS602 - Counselling Theories and Professional Practice  
**AND** EDPS604 - Professional Ethics in Applied Psychology  
**AND** EDPS610 - Research Methodology in Counselling  
**AND** EDPS616 - Assessment Theory and Practices  
**AND** EDPS622 - Developing and Sustaining a Working Alliance with Clients  
**AND** EDPS624 - Cultural and Social Justice Issues in Professional Practice  
**AND** EDPS626 - Group Interventions and Processes  
**AND** EDPS630 - Foundations of Career Counselling  
**AND** EDPS638 - Counselling Interventions for Client Change  
**AND** EDPS646 - Processes of Learning  
**AND** EDPS648 - Lifespan Human Development  
**AND** EDPS664 - Psychological Approaches to Health  
**AND** EDPS670 - Final Project Portfolio

plus:

Practicum: **EDPS642 Counselling Practicum I**, **EDPS644 Counselling Practicum II**. Note Police Information Check below.

Detailed information on course requirements can be obtained from Graduate Programs in Education website:

<https://werklund.ucalgary.ca/graduate-programs/current-students/programs/masters/Master-of-Counselling>.

#### Additional Comments:

Applicants to the Master of Counselling should have reasonable computer literacy as portions of the program are delivered online. Additionally, students are expected to have access to the necessary hardware and a stable internet connection to fully participate in online portions of the program.

## Police Information Check

All successful applicants to the Werklund School of Education Master of Counselling program are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC Requirement" declaration form prior to the start of the program. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than June 30 and students will be required to request a new Police Information Check every year in which they enroll in a practicum course (Educational Psychology 642, 644). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum or Internship. Successful completion of both Practicum and Internship are required for graduation.

Students are obligated to inform the Faculty immediately of any change in the status of their criminal record.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

## Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Master of Counselling can be completed in three years of full-time study, but students may take up to six years to complete the degree on a part-time basis.

## Supervisory Assignments

The Academic Program Coordinator serves as students' academic advisor.

### Financial Assistance

#### Type

Completion Requirement

## Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education office by the posted deadline dates for individual awards as noted at [werkslund.ucalgary.ca/graduate-programs/awards](http://werkslund.ucalgary.ca/graduate-programs/awards).

## Overview

### General Program Information

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

Master of Education (MEd) with specialization in School and Applied Child Psychology (SACP), course-based – blended delivery: online and blended courses with some face-to-face/on-campus meeting times at the University of Calgary main campus.

The MEd, SACP is a continuous program with no scheduled breaks.

Applicants considering the field of school psychology should keep in mind that a master's degree is only the first step to obtaining the credentials necessary for professional practice. To practice, graduates register with the regulatory body in their own jurisdiction (i.e. province, state, or territory). Registration is a process independent from completing the MEd program. The registration options available differ depending on: a) the jurisdiction in which graduates reside, b) the level of education required for registration, and c) the regulatory body with which they register. Students are encouraged to review the registration requirements in their own jurisdiction prior to enrolling in the program.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkslund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/school-applied-child-psychology-master-education-course-based>.

In addition to the Faculty of Graduate Studies requirements, entry requirements include:

a) A completed bachelor's degree in Education or Psychology with a grade point average of 3.00 (equivalent to a "B" or 70 per cent in many universities) over the courses taken during the last two years of study.

## UCalgary

b) A minimum of 30 units completed in psychology is required prior to application. All prerequisite coursework must be completed with a grade of "B-" or above. Applicants must complete and submit a **Required Courses Table** detailing psychology educational history.

c) A curriculum vitae and a concise rationale for the application (500 words or less).

d) Two letters of reference.

e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

Applicants to the Master of Education in School and Applied Child Psychology should have reasonable computer literacy as portions of the programs are delivered online.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies requirements, the MEd SACP program requires a total of 51 units of course work that includes:

i. SACP specialization courses:

**Complete ALL of the following Courses:**

- EDPS614 - Ethics in Professional Psychology  
**AND** EDPS652 - Academic and Language Assessment  
**AND** EDPS653 - Professional Practice of School Psychology  
**AND** EDPS654 - Neurobiological and Developmental Bases of Learning and Behaviour  
**AND** EDPS681 - Theories and Skills of Counselling  
**AND** EDPS687 - Developmental Psychopathology  
**AND** EDPS689 - Cognitive Assessment  
**AND** EDPS690 - School-based Intervention and Consultation  
**AND** EDPS696 - Social, Emotional, and Behavioural Assessment and Intervention

**Complete at least 1 of the following courses:**

- EDPS650 - Family and Social Bases of Behaviour  
**OR** EDPS688 - Cognitive and Affective Bases of Behaviour

ii. Practicum courses (a minimum of 400 hours):

Note Police Information Check below.

**Complete ALL of the following Courses:**

- EDPS676 - Practicum in Social, Emotional, and Behavioural Assessment  
**AND** EDPS697 - Practicum in Academic and Cognitive Assessment

iii. Research courses:

Complete ALL of the following Courses:

- EDPS605 - Psychological Measurement and Statistics  
**AND** EDPS607 - Fundamentals of Measurement

**Additional Comments:**

iv. Final Project Portfolio: **EDPS684 Adv Sem Domains School Psyc** is the students' capstone course and is evaluated as an exit portfolio. Educational Psychology 684 must be taken as the final course (or concurrently with final courses) prior to the internship.

v. Internship (1200 hours): **EDPS698 Pre-Master's Internship**. Note Police Information Check below.

Detailed information on core course requirements can be obtained from Graduate Programs in Education [website](#).

## Police Information Check

All successful applicants to the Werklund School of Education School and Applied Child Psychology program are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will also be required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC Requirement" declaration form prior to the start of the program. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than April 30 and students will be required to request a new Police Information Check every year in which they enroll in a practicum or internship course (Educational Psychology 676, 697, 698). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education during the first summer residency and to the organization hosting the student on or before the first day of the practicum or internship.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum. Successful completion of Practicum is required for graduation.

Students are obligated to inform the Faculty immediately of any change in status of their criminal record.

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

### Time Limit

The Master of Education School and Applied Child Psychology program can be completed in three years of full-time study but students may take up to six years to complete the degree on a part-time basis.

### Supervisory Assignments

The Academic Program Coordinator serves as students' academic advisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education office by the posted deadline dates for individual awards as noted at <https://werkklund.ucalgary.ca/graduate-programs/awards>.

## Overview

### General Program Information

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

The MSc in Educational Psychology, Specialization in School and Applied Child Psychology is delivered on campus.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/school-applied-child-psychology-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Education requirements, entry requirements include:

- a) Honours degree in Psychology (or equivalent) is preferred; applicants with a degree in Psychology, previous experience in the Psychological field, and a grade point average of 3.00 (equivalent to a "B" or 70 per cent average) over the courses taken during the last two years of study will be considered.
- b) Normally, a minimum of 18 units in Educational Psychology or Psychology. This must include:

- i. One undergraduate course in statistics
- ii. One senior undergraduate Psychology or Educational Psychology course in cognitive-affective bases of behaviour.
- iii. One senior undergraduate Psychology or Educational Psychology course in child development or equivalent.

All prerequisite coursework must be completed with a grade of "B-" or above.

c) Curriculum Vitae.

d) Two academic references, one of which is normally from the undergraduate honours supervisor, if applicable.

e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

f) A short statement of intent (approximately 500 words) of your research and professional interest in school psychology (e.g., expected contribution to the field; understanding of school psychology) indicating your reasons for wanting to pursue graduate work in this degree.

Note: A completed **Pre-Admissions Checklist** is required as part of the admissions process.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies and Education requirements, the MSc SACP degree program requires the following:

42 units of coursework that includes:

**Complete ALL of the following Courses:**

- EDPS609 - Research Design in Statistics II  
**AND** EDPS614 - Ethics in Professional Psychology  
**AND** EDPS618 - Multivariate Design and Analysis  
**AND** EDPS650 - Family and Social Bases of Behaviour  
**AND** EDPS651 - Disorders of Learning and Behaviour  
**AND** EDPS653 - Professional Practice of School Psychology  
**AND** EDPS654 - Neurobiological and Developmental Bases of Learning and Behaviour  
**AND** EDPS659 - Academic Assessment and Intervention  
**AND** EDPS665 - Cognitive Assessment and Intervention  
**AND** EDPS669 - Social-Emotional Assessment and Intervention  
**AND** EDPS683 - Consultation in School Psychology  
**AND** EDPS685 - Child and Adolescent Counselling

Practicum (minimum 400 hours):

**Complete ALL of the following Courses:**

- EDPS662 - School Psychology Practicum I  
**AND** EDPS663 - School Psychology Practicum II

Additional Comments:

### Police Information Check

All successful applicants to the Werklund School of Education Counselling Psychology program are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC requirement" declaration form prior to the start of the program. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than June 30, and students will be required to request a new Police Information Check every year in which they enroll in a practicum course (Educational Psychology 640, 647). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum. Successful completion of Practicum is required for graduation.

Students are obligated to inform the Faculty immediately of any change in status of their criminal record.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate Programs in Education do not normally accept undergraduate courses for credit toward graduate degrees.

### Time Limit

The Master of Science requires two years of full-time study to complete. Maximum time allowed for completion of the Master of Science degree is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An interim advisor is assigned to each first-year student in a thesis-based program. Students are responsible for initiating discussions with potential permanent supervisors and are expected to have finalized supervisory arrangements by their second annual registration.

A supervisory committee, approved by the Graduate Program Director, is required for MSc students choosing the manuscript-based thesis route. Normally, the committee will consist of the supervisor and two members (see – [Supervision](#))

## Research Proposal Requirements

Information on research proposals is available through the interim advisor/supervisor.

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRIS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRIS](#).

## Required Examinations

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education by the posted deadline dates for individual awards as noted at <https://werkklund.ucalgary.ca/graduate-programs/awards>.

Graduate Programs in Education also provides assistance for students through teaching assistantships, graduate research scholarships and other scholarships. Application forms and deadline information for these awards can be obtained from Graduate Programs in Education.

## Overview

### General Program Information

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: [gpe@ucalgary.ca](mailto:gpe@ucalgary.ca)

Web page URL: [werkklund.ucalgary.ca/gpe](http://werkklund.ucalgary.ca/gpe)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/school-applied-child-psychology-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/school-applied-child-psychology-doctor-philosophy-thesis-based).

In addition to the Faculty of Graduate Studies and Education requirements, entry requirements include:

a) A completed thesis-based master's degree in School and Applied Child Psychology or equivalent from an approved university, with a minimum grade point average of 3.50 in the Master's degree.

**Note:** If coursework from an applicant's Master's degree is not equivalent to courses from the Master of Science in School and Applied Child Psychology at the University of Calgary, the student may be admitted as a qualifying student (see [G.A.3 Admission Categories](#)). A qualifying student is required to take additional courses within the doctoral program to ensure equivalent training. A qualifying student may take up to 12 units to meet equivalency requirements during the qualifying year. Qualifying status will not be granted for a period exceeding one year.

b) Two senior undergraduate courses or one graduate course (3 units each) with a minimum grade of "B-" in (i) biological bases of behaviour, (ii) cognitive-affective bases of behaviour, (iii) social bases of behaviour, and (iv) individual behaviour.

c) One senior undergraduate or one graduate course (3 units each) with a minimum grade of "B-" in the historical and scientific foundations of general psychology.

**Note:** Students may be considered for admission if up to 12 units of prerequisite courses have not been completed at the time of application. Prerequisite coursework must be completed before the doctoral candidacy examination.

d) Curriculum Vitae.

e) Three references, including two academic references, one of which is normally from the former thesis advisor.

f) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code **0813**.

g) A concise rationale (500 words or less) for the application including statements about your research and professional interests in school psychology, your previous research experience and the research you would like to pursue in this degree, and specification of a prospective research supervisor from among current faculty.

Note: A completed [Pre-Admissions Checklist](#) is required as part of the admissions process.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies requirements, the degree program requires the following:

a) A minimum of 33 units of course work at the doctoral level that includes:

**Complete ALL of the following Courses:**

- EDPS712 - Program Evaluation and Consultation I  
**AND** EDPS713 - Program Evaluation and Consultation II  
**AND** EDPS731 - Advanced Clinical Supervision in Applied Psychology  
**AND** EDPS732 - Advanced Seminar in School and Applied Child Psychology  
**AND** EDPS760 - Evidenced-Based Consultation for Intervention  
**AND** EDPS762 - Advanced Neuropsychological Assessment and Intervention  
**AND** EDPS763 - School- and Clinical-based Interventions  
**AND** EDPS764 - Advanced Research Statistics

12 units of Practicum Courses selected from:

**Complete ANY of the following Courses:**

- EDPS761 - Advanced Doctoral Practicum in Clinical Assessment and Supervision  
**AND** EDPS766 - School-Based Practicum

#### Additional Comments:

b) A twelve-month (min. 1600 hours) full-time internship. Note: completion of this requirement will be recorded on the student transcript as a milestone.

First-year students are assigned an interim advisor who will assist with course selection.

PhD students are expected to undertake clients from the Werklund School of Education Integrated Services in Education Clinic and mentor MSc students in the on-campus practicum courses under the guidance of a qualified professional.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Police Information Check

All successful applicants to the Werklund School of Education School and Applied Child Psychology program are required to provide a current Police Information Check (obtained from their nearest police service or RCMP detachment in the area where they reside), which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC Requirement" declaration form prior to the start of the program. In order to be considered "current", the Police Information Check must be completed no earlier than June 30 and students will be required to request a new Police Information Check every year in which they enroll in a practicum or internship (Educational Psychology 761 and 766). The original Police

Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum or internship.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum and internship placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum or Internship. Successful completion of both Practicum and Internship are required for graduation.

Students are obligated to inform the Faculty immediately of any change in the status of their criminal record.

## Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Doctor of Philosophy degree is designed to be completed in four years. Maximum completion time allowed is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students are responsible for initiating discussions with potential permanent supervisors and are expected to have finalized supervisory arrangements by their second annual registration.

### Research Proposal Requirements

Information on research proposals is available through the interim advisor/supervisor.

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRIS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using IRIS [ucalgary.ca/iriss/](http://ucalgary.ca/iriss/).

### Required Examinations

#### Candidacy

Admission into Candidacy in the Werklund School of Education Graduate Programs: 1) requires that students have abilities to conceptualize, interpret, critique and synthesize comprehensive, substantive knowledge that is relevant to the discipline and practice of educational psychology; and 2) ensures that students have a well-developed plan for their dissertation research, a sound proposal with a well-developed research question and potential for the ability to pursue and complete original independent research at the doctoral level.

In compliance with the Faculty of Graduate Studies [candidacy regulations](#), the requirements for Admission to Candidacy at the Werklund School of Education is a 4 stage process:

- Completion of all course requirements as identified in the calendar;
- Field of study (FoS) written paper;
- A research proposal approved by the Supervisory Committee (recognizing changes may be made after successful completion of exams prior to submission for ethics approval);

- An oral examination of the research proposal;

All Candidacy requirements must be completed within 28 months of the start of the program.

For further information, please consult the Graduate Programs in Education [website](#).

## Thesis

The doctoral thesis is the focus of the degree program. In consultation with the supervisor, the student should formulate an appropriate thesis topic as early as possible in the program because the thesis proposal affects the choice and number of courses needed in order to complete the program.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education office by the posted deadline dates for individual awards as noted at [werkklund.ucalgary.ca/graduate-programs/awards](http://werkklund.ucalgary.ca/graduate-programs/awards).

Graduate Programs in Education also provides assistance for students through teaching assistantships, graduate research scholarships and other scholarships. Application forms and deadline information for these awards can be obtained from Graduate Programs in Education.

## Overview

### General Program Information

**Applications for this interdisciplinary specialization are not current being accepted.**

The University offers an interdisciplinary specialization in Energy and Environmental Systems to students registered in an existing graduate program currently offered through one of the following Faculties that are affiliated with the Institute for Sustainable Energy, Environment and Economy (ISEEE):

- School of Architecture, Planning and Landscape
- Faculty of Arts
- Haskayne School of Business
- Faculty of Law
- Faculty of Science
- Schulich School of Engineering

In cases where the student's proposed research area cannot be supported through a single academic program, and which would necessitate the combination of at least two academic areas, they may seek admission and earn the EES specialization through the Interdisciplinary Graduate Program (IGP) of the Faculty of Graduate Studies.

## Admissions

### Program Admissions Information

There are no deadlines for applying for admission into the EES Specialization; however, students will only be admitted into the EES Specialization on January 1, May 1 and September 1. Students who are already enrolled in a graduate program at the University of Calgary are able to apply to the EES Specialization.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, all applicants must meet the minimum admission requirements of the home graduate program and ISEEE. To apply for the specialization, students must complete an online EES specialization application form: <http://science.ucalgary.ca/iseee/student/apply-now>.

When applying to the EES specialization, students must have already applied to a home graduate program, faculty, or department and must already have a supervisor. Successful candidates must be approved for admission by both the home graduate program as well as by EES. Admission to a degree program does not guarantee entrance to the EES specialization. Likewise, admission to the EES specialization does not guarantee entrance to a degree program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies ([see regulations](#)) and the home graduate program's requirements, students undertaking the EES specialization must successfully complete the following:

#### EES Specialization at the Master's Level

Students in the EES specialization are required to complete four courses, which include:

- Energy and Environmental Systems 601: Introduction to Energy and Environmental Systems
- Energy and Environmental Systems 607: Tools for System Analysis

The remaining two courses must be electives approved by the EES Graduate Studies Committee. These courses are intended to bolster a student's background in energy and environmental systems and/or interdisciplinary research methods, and may be taken in other faculties, schools, or departments at the University of Calgary.

Master's students must also comply with the requirements of their home graduate program. In addition to these course requirements, students must conduct research that takes an interdisciplinary approach to a real-world problem in the area of energy and environmental systems. Students must also actively partake in EES seminars and activities, and contribute meaningfully to the interdisciplinary culture of the specialization.

#### EES Specialization at the Doctoral Level

Students who have previously earned a master's degree with the EES specialization cannot enrol into the EES specialization as a PhD student. Doctoral students are required to take the same EESS core courses that are required at the master's level and two electives in the area of energy and environment. Doctoral students must also comply with requirements of their home graduate program.

#### EES Specialization with MGIS Degree (course-based)

Students enrolled in the Master of Geographic Information Systems degree program who wish to earn the EES specialization

will need to take three of the EES courses (Energy and Environmental Systems 601, 603, and one other). Students are not required to take Geography 683, but must take the other core courses in the MGIS program (Geography 647, 633, 639, and 681). Finally, students will still be required to fulfill the 30 units (5.0 full-course equivalents) requirement of the MGIS program, and can select the remaining three courses from Geography optional courses or EES related courses. It is not recommended that students required to complete the MGIS upgrade courses undertake the EES specialization.

## **EES Specialization with the Interdisciplinary Graduate Program (IGP)**

The course curriculum for IGP students will be determined at the IGP admission seminar. Course requirements will typically include the EES core courses, but may also include other courses to ensure adequate coverage of the relevant disciplines involved. Changes to the student's curriculum after the admission seminar will require the approval of the Supervisory Committee, IGP Director, and the Faculty of Graduate Studies.

## **Additional Program Information**

### **Type**

Completion Requirement

### **Additional Comments:**

## **Advanced Credit**

Requests for advanced credit must be made at the time of application. Credit will not be granted for course work taken as part of another completed degree/diploma or for courses taken to bring the admission GPA to the required level.

## **Credit for Undergraduate Courses**

Students are allowed to take only one 500-level course for graduate credit, subject to the approval of the EES Graduate Studies Committee. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

## **Time Limit**

Expected completion time for a master's degree is two years and the maximum completion time is four years.

Expected completion time for the PhD degree is four years and the maximum completion time is six years.

## **Supervisory Assignment and Required Examinations**

### **Type**

Completion Requirement

### **Additional Comments:**

## **Supervisory Assignments**

Students must meet supervisory requirements of home department.

## **Required Examinations**

Final thesis orals follow the requirements of the Faculty of Graduate Studies and the home graduate program. Students in doctoral programs must fulfill the written candidacy examination requirement of the home graduate program. All doctoral students must complete the candidacy oral examination in accordance with Faculty of Graduate Studies' regulations.

## **Research Proposal Requirements**

If a research proposal is required by the home department, then a copy of the proposal must be submitted to the EES Graduate Studies Committee and will be placed on file.

## **Financial Assistance**

### **Type**

Completion Requirement

## Additional Comments:

Financial assistance may be available on a competitive basis to all qualified full-time graduate students enrolled in the EES specialization. Students are also encouraged to seek funding opportunities through the Faculty of Graduate Studies' Open Scholarship Competition (contact the home program for application deadlines), as well as external funding agencies.

## Overview

### General Program Information

Students may choose a specialization in Finance or may elect not to have an area of specialization.

Location: Mathison Hall, Room 424

EMBA Program: 403.220.5149

Fax: 403.282.0095

Email address:

EMBA Program: <mailto:emba@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs/emba>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/management-executive-master-business-administration-course-based>.

In addition to the Faculty of Graduate Studies **admission** requirements for Admission, the program requires:

a) A four-year baccalaureate degree with a GPA of at least 3.00 on a four-point scale.

- *For applicants with a GPA below 3.0: An additional requirement of a score of 500 or higher on the GMAT or completion of the GMAC Executive Assessment with a minimum score of 140.\**

OR

- *Applicants without a four-year baccalaureate degree may be admissible with a combination of over 10 years of professional work experience and an additional requirement of a score of 500 or higher on the GMAT or 140 on the GMAC Executive Assessment.\**

*\*The final admission decision rests with the Dean of the Faculty of Graduate Studies. See **Qualifications** (Exceptional Circumstances).*

b) A current résumé.

c) A 250-word response to each of two questions provided as part of the application process.

d) For applicants required to prove proficiency in English, a minimum TOEFL score of 97 with no section less than 20 (Internet-based test), or an IELTS score of 7.0 with no section less than 6.0.

e) The equivalent of at least seven years of work experience, a number of years of which must have carried management or professional responsibility.

f) Two reference letters. References listed on application are emailed a link.

g) Applicants to the EMBA must be eligible to travel internationally.

h) Applicants may be required to participate in an interview.

### Admission Deposit

## UCalgary

Successful applicants will be required to confirm their acceptance of an offer of admission into the MBA program with an online non-refundable deposit:

Executive MBA: \$3,000

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the program requires:

The delivery format of the program is different from the Haskayne MBA program and requires more integrative types of sessions and activities. However, the program requires many of the same courses as are required in the Haskayne MBA program. The Executive MBA has 42 units of required courses with 18 units of additional courses for a total of 60 units.

In general, students in this program are expected to follow a general curriculum rather than electing an area-specific specialization. However, there is the opportunity to elect a specialization in Finance.

Required Courses:

**Complete ALL of the following Courses:**

- ACCT601 - Introductory Financial Accounting  
**AND** ACCT603 - Management Accounting  
**AND** BTMA601 - Business Technology Management  
**AND** ENTI601 - Entrepreneurial Thinking  
**AND** FNCE601 - Managerial Finance  
**AND** MGST611 - Managerial Economics  
**AND** MGST613 - Managerial Decision Modeling  
**AND** MKTG601 - Marketing Management  
**AND** OPMA601 - Operations Management  
**AND** OBHR601 - Organizational Behaviour  
**AND** OBHR621 - Advanced Leadership  
**AND** SGMA601 - Strategic Management I  
**AND** SGMA603 - Global Environment of Business
- MGST615 - Strategic Business Analysis  
**OR** ENTI623 - Creative Destruction Lab - Rockies

#### Finance Specialization

Students taking the Finance specialization will complete 12 units in the area of Finance: [FNCE611 Adv Topics in Financial Admin](#) (3 units) plus 9 units of 600-level Finance courses.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Flexible Grade Option (CG Grade)

Students admitted to the MBA (course-based) program, Executive MBA program or Executive MBA Specializing in Global Energy program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Participants enter the program as a cohort and are expected to complete the program requirements at the same pace, typically over the same 20-month time frame. Maximum time limit: six years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Machine Learning Engineering
- Software Engineering
- Process Engineering Sustainability
- Process Simulation Analytics
- Reliability Engineering and Predictive Maintenance
- Mechatronics Engineering

### MEng Graduate Program Office

Location: Schulich School of Engineering Bloc C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/graduate-certificates-advanced-engineering-practice>.

In addition to the Faculty of Graduate Studies [admission](#) requirements and the Schulich School of Engineering requirements, all applicants require:

- a) A BSc in a relevant discipline of Engineering or equivalent.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system) calculated on the most recent 60 units (10.0 full course equivalents) of completed course work.
- c) Holders of a BSc or equivalent degrees in Science, Medicine or Kinesiology, if accepted, may be required to take additional

senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of Bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units (5.0 full-course equivalents) undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

d) Minimum of one year of work experience in engineering or a closely related field, or at least one year of internship under a professional engineer in an engineering company.

e) Resume or CV.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. Upgrading requirements include a minimum of 18 units (3.0 full-course equivalents) of coursework with a minimum grade of 3.00 on a 4.0-point scale in each course. At least 12 or 6 units (2.0 or 1.0 full-course equivalents) of these courses, respectively, must be at the graduate-level. Upgrading courses will be prescribed by the Associate Dean (Graduate Studies) or designate in those instances where they are required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements:

Each of the Graduate Certificates in Advanced Engineering Practice I and II consists of 12 units of coursework.

Students must select different specializations in each of the two Graduate Certificates (i.e., a student cannot repeat the specialization that they completed in the first Certificate when they enrol in the second Certificate).

#### Complete ANY of the following Course Sets:

- GC Advanced Engineering, Machine Learning Specialization
- OR GC Advanced Engineering, Software Engineering Specialization
- OR GC Advanced Engineering, Process Engineering Sustainability Specialization
- OR GC Advanced Engineering, Process Simulation Analytics Specialization
- OR GC Advanced Engineering, Reliability Engineering and Predictive Maintenance Specialization
- OR GC Advanced Engineering, Mechatronics Engineering Specialization

\*For the Process Engineering Sustainability Specialization, [ENCH619 Special Problems.66](#) is the required topics course.

#### \*Students specializing in Machine Learning Engineering or Software Engineering:

- Students without a software engineering background must complete 3 foundation courses before taking the Graduate Certificate courses. The foundation courses are:

#### Complete ALL of the following Course Sets:

- Graduate Software Engineering Foundation Courses

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

**Advanced Credit** will not be given in the Graduate Certificate programs.

\*Note: students who wish to receive advanced credit for courses taken as part of the Graduate Certificate program(s) and apply the credit toward a MEng should consult with the Department offering the MEng.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit For Undergraduate Courses

No credit will be given for undergraduate courses towards the Graduate Certificate in Advanced Practice I or II.

## Time Limit

The expected completion time for the Graduate Certificate in Advanced Engineering Practice I or II is one year, and the maximum completion time is two years.

Students must apply to the Graduate Certificate in Advanced Engineering Practice II within 2 years of beginning the Advanced Engineering Practice I program.

## Supervisory Assignments

A Coordinator is assigned to each cohort in the Graduate Certificate in Advanced Engineering Practice I and II.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is not generally available to students in the Advanced Engineering Graduate Certificate program.

## Overview

### General Program Information

#### Specializations:

- Machine Learning Engineering
- Software Engineering
- Process Engineering Sustainability
- Process Simulation Analytics
- Reliability Engineering and Predictive Maintenance
- Mechatronics Engineering

### MEng Graduate Program Office

Location: Schulich School of Engineering Bloc C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/graduate-certificates-advanced-engineering-practice>.

### Graduate Certificate in Advanced Engineering Practice II

In addition to the Faculty of Graduate Studies' [admission](#) requirements, all applicants must have completed the [GCERT Adva](#) with a cumulative GPA of 3.00 on a four-point scale.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements:

Each of the Graduate Certificates in Advanced Engineering Practice I and II consists of 12 units of coursework.

Students must select different specializations in each of the two Graduate Certificates (i.e., a student cannot repeat the specialization that they completed in the first Certificate when they enrol in the second Certificate).

**Complete ANY of the following Course Sets:**

- GC Advanced Engineering, Machine Learning Specialization  
**OR** GC Advanced Engineering, Software Engineering Specialization  
**OR** GC Advanced Engineering, Process Engineering Sustainability Specialization  
**OR** GC Advanced Engineering, Process Simulation Analytics Specialization  
**OR** GC Advanced Engineering, Reliability Engineering and Predictive Maintenance Specialization  
**OR** GC Advanced Engineering, Mechatronics Engineering Specialization

\*For the Process Engineering Sustainability Specialization, [ENCH619 Special Problems.66](#) is the required topics course.

**\*Students specializing in Machine Learning Engineering or Software Engineering:**

- Students without a software engineering background must complete 3 foundation courses before taking the Graduate Certificate courses. The foundation courses are:

**Complete ALL of the following Course Sets:**

- Graduate Software Engineering Foundation Courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

**Advanced Credit** will not be given in the Graduate Certificate programs.

\*Note: students who wish to receive advanced credit for courses taken as part of the Graduate Certificate program(s) and apply the credit toward a MEng should consult with the Department offering the MEng.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit For Undergraduate Courses

No credit will be given for undergraduate courses towards the Graduate Certificate in Advanced Practice I or II.

### Time Limit

The expected completion time for the Graduate Certificate in Advanced Engineering Practice I or II is one year, and the maximum completion time is two years.

Students must apply to the Graduate Certificate in Advanced Engineering Practice II within 2 years of beginning the Advanced Engineering Practice I program.

### Supervisory Assignments

A Coordinator is assigned to each cohort in the Graduate Certificate in Advanced Engineering Practice I and II.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance is not generally available to students in the Advanced Engineering Graduate Certificate program.

## Overview

### General Program Information

#### Specializations:

- Chemical Engineering
- Petroleum Engineering
- Biomedical Engineering (thesis-based only)\*
- **Environ En**
- **Energy&Env**
- **Energy&Env**

Master's thesis graduate students are normally admitted as full-time students. The Head of the Department or designate may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block B, Room 202

Program number: 403.220.7016

Email address: <mailto:cpeadmissions@ucalgary.ca>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-msc-thesis>.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters are required for thesis-based (MSc) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

A minimum of 12 units of graduate courses.

- a) All Master of Science students are required to complete [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#) in the first year of their degree program in addition to the minimum program/course requirements for their specialization.
- b) Students must either present one research seminar at the annual Graduate Student Conference in the Winter Term or give an oral presentation at a science/engineering conference.
- c) Students must also complete core course requirements for their specialization as described:

##### Complete ANY of the following Course Sets:

- Engineering, TB, Core Courses for CHEM, BMEN, ENEN, ENEE, EESS Specializations  
OR Engineering TB Core Courses for Petroleum Eng Specialization

*Chemical Engineering, Petroleum Engineering and Biomedical Engineering specializations*

All Master of Science students must complete at least two of the core courses of their specialization.

## Energy&Env

All Master of Science students must complete at least one of the core courses in their specialization.

## Energy&Env

All Master of Science students must complete at least one of the core chemical engineering courses.

### Additional Comments:

### Additional Program Information

#### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not applicable.

## Time Limit

Typical completion time is one to two years for full-time students in a master's program. Maximum completion time is four years for a Master of Science.

See individual program pages on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-msc-thesis>.

## Other Information

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All students are required to have a supervisor before the second annual registration. For students in the Master of Science degree program, a supervisor is normally appointed at the time of admission.

## Required Examinations

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The following options are available for students entering the Master of Engineering (course-based) program:

- MEng, Master of Engineering
- Master of Engineering with Project Management Specialization

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Civil Engineering program.

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/civil>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications: <http://www.ucalgary.ca/future-students/graduate/explore-programs/civil-engineering-master-engineering-course-based>.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Department of Civil Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to

take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Department normally requires:

**Complete ANY of the following Requirement Sets:**

- MEng, Course-based, Civil Engineering
- MEng, Course-based, Civil, Project Management Specialization

Any variations in required courses will be with the approval of the Graduate Program Director.

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

See Program/Course Requirements.

## Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion time is six years for a Master of Engineering (course-based) program. The Master of Engineering, course-based with Internship is normally a three-year program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

## Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Avalanche Mechanics
- Biomechanics (see [PHD Biomed](#))
- Bituminous Materials
- Geotechnical Engineering
- Materials Engineering
- Project Management
- Structures and Solid Mechanics
- Transportation Engineering
- Water Resources
- [Energy&Env](#)
- [Environ En](#)

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block E, Room 231

Phone number: 403.220.5821

Email address: <mailto:civgrad@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications: <http://www.ucalgary.ca/future-students/graduate/explore-programs/civil-engineering-master-science-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for **admission**, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters are required for thesis-based (MSc) graduate programs. References are not required for course-based (MEng) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies **requirements** and the Schulich School of Engineering requirements, the Department normally requires:

- a) A minimum of 12 units and a maximum of 24 units of coursework.
- b) Research and thesis work as major components of the program.

All Master of Science students must complete the professional development courses **ENGG601 Professional Development I** and **ENGG603 Professional Development II**. These courses are in addition to the "Program/Course Requirements".

All graduate students who require access to Civil Engineering laboratories are required to complete a Workplace Hazardous Materials Information Systems (WHMIS) course and other required safety training courses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

See Program/Course Requirements.

### Time Limit

Typical completion time is one to two years in a master's program. Maximum completion time is four years for a Master of Science program.

See individual program pages on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs](https://ucalgary.ca/future-students/graduate/explore-programs).

### Other Information

Students enrolled in any of the engineering graduate programs may opt, in addition to their normal required course load, to undertake an international project outside Canada. The duration of the project should be between 4 and 6 months. Upon successful completion (on a credit/fail basis) of Engineering 689, the statement "International Graduate Internship Project" will appear on the parchment. The course is not repeatable for credit.

Graduate students have the opportunity to participate in the **Transformative Talent Internship** option.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [academic regulations](#)) and are approved by the Department Head or the Graduate Program Director.

### Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Schulich School of Engineering minimum requirements are as follows:

#### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate

Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Avalanche Mechanics
- Biomechanics (see [PHD Biomed](#))
- Bituminous Materials
- Geotechnical Engineering
- Materials Engineering
- Project Management
- Structures and Solid Mechanics
- Transportation Engineering
- Water Resources
- [Energy&Env](#)
- [Environ En](#)

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block E, Room 231

Phone number: 403.220.5821

Email address: <mailto:civgrad@ucalgary.ca>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/civil-engineering-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- a) MSc degree, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- b) A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- c) Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.

d) Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) A minimum of 18 units of graduate coursework beyond the baccalaureate.
- b) A minimum of 6 units and a maximum of 18 units of coursework beyond the master's degree.
- c) A written literature review, a written thesis proposal and a field of study oral examination.
- d) A thesis related to advanced original engineering research.

All Doctoral students must complete the professional development courses [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#). These courses are in addition to the "Program/Course Requirements".

All graduate students who require access to Civil Engineering laboratories are required to complete a Workplace Hazardous Materials Information Systems (WHMIS) course and other required safety training courses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

See Program/Course Requirements.

### Time Limit

Typical completion time is three to four years in a doctoral program. Maximum completion time is six years for a doctoral

program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

## Other Information

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

### Supervisory Assignments, Candidacy and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [Graduate Regulations](#)) and are approved by the Department Head or the Graduate Program Director.

## Required Examinations

### Doctoral Candidacy Requirements

All Doctoral students are required to pass a written Field of Study examination and an oral thesis proposal examination. Specific details of the examination format and other candidacy requirements can be found at <https://grad.ucalgary.ca/current-students/thesis-based-students/exams/candidacy>.

### Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department of Civil Engineering minimum requirements are as follows:

### Doctoral Final Oral Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

#### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Chemical Engineering
- Petroleum Engineering
- Environ En
- Energy&Env
- Energy&Env
- Reservoir
- Petroleum Reservoir Engineering\*
- Petroleum Exploration Engineering\*

\*The Department is currently not accepting applications for these specializations.

The Schulich School of Engineering also offers a Master of Engineering (MEng), course-based with Internship in the Chemical and Petroleum Engineering program.

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### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/chemical-petroleum>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-meng-course>.

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In addition to the Faculty of Graduate Studies requirements for admission, the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department requires:

**Complete ANY of the following Requirement Sets:**

- MEng, Course-based, Chemical Engineering Specialization  
**AND** MEng, Course-based, Petroleum Engineering Specialization

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

For Interdisciplinary Specializations see:

- [Environ En](#)
- [Energy&Env](#)
- [Energy&Env](#)
- [Reservoir](#)

### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion times are six years for a Master of Engineering (course-based). The Master of Engineering, course-based with Internship is normally a three-year program.

See individual program pages on the Future Students [website](#).

## Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Chemical Engineering
- Petroleum Engineering
- Biomedical Engineering\*
- [Environ En](#)
- [Energy&Env](#)
- [Energy&Env](#)

\*The Department is currently not accepting applications for this specialization.

The Schulich School of Engineering does not formally offer a part-time option.

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block B, Room 202

Program number: 403.220.7016

Email address: <mailto:cpeadmissions@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/chemical-petroleum>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-meng-thesis>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to

take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

d) Two reference letters are required for thesis-based (MSc) graduate programs. References are not required for course-based (MEng) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

A minimum of 12 units of graduate courses.

- All Master of Science and doctoral students are required to complete [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#) in the first year of their degree program in addition to the minimum program/course requirements for their specialization.
- Students must either present one research seminar at the annual Graduate Student Conference in the Winter Term or give an oral presentation at a science/engineering conference.
- Students must also complete core course requirements for their specialization as described:

##### Complete ALL of the following Course Sets:

- Engineering, TB, Core Courses for CHEM, BMEN, ENEN, ENEE, EESS Specializations
- Engineering TB Core Courses for Petroleum Eng Specialization

*Chemical Engineering, Petroleum Engineering and Biomedical Engineering specializations*

All Master of Science students must complete at least two of the core courses of their specialization.

*Environmental Engineering and Energy and Environment specializations*

All Master of Science students must complete at least one of the core courses in their specialization.

*Energy and Environmental Systems specialization*

All Master of Science students must complete at least one of the core chemical engineering courses.

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed

supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not applicable.

## Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion time is four years for a Master of Engineering (thesis-based).

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

## Other Information

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All students are required to have a supervisor before the second annual registration. For students in the Doctor of Philosophy degree program, a supervisor is normally appointed at the time of admission.

### Final Oral Examination

#### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Chemical Engineering
- Petroleum Engineering
- Biomedical Engineering\*
- Environ En
- Energy&Env
- Energy&Env

\*The Department is currently not accepting applications for this specialization.

Doctoral graduate students are normally admitted as full-time students. The Head of the Department or designate may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Department Office (MSc and PhD)

Location: Schulich School of Engineering Block B, Room 202

Program number: 403.220.7016

Email address: <mailto:cpeadmissions@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/chemical-petroleum>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-phd>.

In addition to the Faculty of Graduate Studies requirements for admission, the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

- a) MSc degree, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- b) A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- c) Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- d) Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

## Program Details

### Simple Requisites

Program/Course Requirements
Type

## Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the Department normally requires:

A minimum of 12 units of graduate courses.

- a) All doctoral students are required to complete [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#) in the first year of their degree program in addition to the minimum program/course requirements for their specialization.
- b) Students must either present one research seminar at the annual Graduate Student Conference in the Winter Term or give an oral presentation at a science/engineering conference.
- c) Students must also complete core course requirements for their specialization as described:

**Complete ANY of the following Course Sets:**

- Engineering, TB, Core Courses for CHEM, BMEN, ENEN, ENEE, EESS Specializations  
**OR** Engineering TB Core Courses for Petroleum Eng Specialization

*Chemical Engineering, Petroleum Engineering and Biomedical Engineering specializations*

All doctoral students must have completed at least four of the core courses of their specialization before proceeding to the candidacy examination. Doctoral students in the Chemical Engineering specialization can substitute one core course for a core course in the Petroleum Engineering specialization. Doctoral students in the Petroleum Engineering specialization can substitute one core course for a core course in the Chemical Engineering specialization.

[Energy&Env](#)

All doctoral students must have completed at least two of the core courses in their specialization before proceeding to the candidacy examination. Requirements for these specializations are listed under the corresponding sections.

[Energy&Env](#)

All doctoral students must have completed at least two of the core chemical engineering courses before proceeding to the candidacy examination.

## Additional Comments:

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not applicable.

## Time Limit

Typical completion time is three to four years in a doctoral program. Maximum completion time is six years for a doctoral program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

## Other Information

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

All students are required to have a supervisor before the second annual registration. For students in the Doctor of Philosophy degree program, a supervisor is normally appointed at the time of admission.

## Required Examinations

### Doctoral Candidacy Requirements

All Doctoral students are required to pass a written Field of Study examination and an oral thesis proposal examination. Specific details of the examination format and other candidacy requirements can be found at <https://grad.ucalgary.ca/current-students/thesis-based-students/exams/candidacy>.

## Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department of Chemical and Petroleum Engineering minimum requirements are as follows:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

#### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Software Engineering\*
- Environ En
- Energy&Env
- Energy&Env

\*The Software Engineering specialization is a 12-month intensive program with no scheduled break.

The Schulich School of Engineering also offers a Master of Engineering (MEng), course-based with Internship in the Electrical and Computer Engineering program (not available for Software Engineering).

### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.5732

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/electrical-software>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website:

MEng (course-based): <http://www.ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-master-engineering-course-based>.

MEng (course-based) with specialization in Software Engineering: <https://ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-master-engineering-software-course-based>.

In addition to Faculty of Graduate Studies' admission requirements and the Schulich School of Engineering requirements, the Department requires:

#### Master of Engineering

- A four-year bachelor's degree in electrical engineering or computer or software engineering.
- Applicants with a four-year bachelor's degree in other disciplines may be considered but additional undergraduate courses in electrical engineering or computer or software engineering (as determined by the Graduate Program Director) may be required.

#### Master of Engineering, Specialization in Software Engineering

- A four-year bachelor's degree in engineering from a recognized institution.
- Applicants with a four-year bachelor's degree in Software Engineering or equivalent from a recognized institution may be exempt from taking the 9 units of foundation courses. This exemption will be determined at the time of admission.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' requirements and the Schulich School of Engineering requirements, the

Department normally requires:

**Complete ANY of the following Requirement Sets:**

- MEng, Course-based, Electrical and Computer Engineering  
**AND** MEng, Course-based, Electrical and Computer, with an Interdisciplinary Specialization  
**AND** MEng, Course-based, Electrical and Computer, Software Engineering Specialization

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission or for grades below "B".

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

MEng (course-based), Specialization in Software Engineering students may not take any undergraduate courses for credit as part of their program.

### Time Limit

The MEng (course-based) program is typically completed full-time in two years, with academic sessions in Fall and Winter and a scheduled break from May to August. The exception is the specialization in Software Engineering, which is an intensive 12-month program and must be completed on a full-time basis.

The maximum completion time is six years for the Master of Engineering (course-based).

The Master of Engineering, course-based with Internship is normally a three-year program.

### Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

#### Financial Assistance

##### Type

Completion Requirement

## Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Software Engineering (offered jointly through the Department of Electrical and Software Engineering and the Department of Computer Science)
- [Energy&Env](#)
- [Environ En](#)
- [Energy&Env](#)
- [Wearable T](#)

The PhD program may be completed on a full-time or a part-time basis. For details, see <https://grad.ucalgary.ca/future-students/explore-programs/electrical-and-computer-engineering-phd>.

Department Office (MSc and PhD)

Location: ICT Building, Room 402

Program number: 403.220.5806

Email address: <mailto:ese.gradstudies@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- MSc degree in electrical engineering, computer engineering, or software engineering.
- A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

Note: Transfer to the doctoral program without completing the master's degree may be approved for exceptional students whose BSc degrees are in electrical engineering, computer engineering or software engineering.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

### Additional Comments:

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) Normally, 18 to 27 units at the graduate level beyond the bachelor's degree, or 6 to 15 units at the graduate level beyond the master's degree with no fewer than half the courses in the Departmental program.
- b) A grade of at least a "B+" in each graduate course with a grade point average of at least 3.30 and a grade of CR in [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#).
- c) All Doctoral students are required to successfully complete the candidacy requirements, which consist of four components: PhD coursework, a Field of Study examination in Electrical, Computer, and Software Engineering, a written thesis proposal, and an oral thesis proposal examination. Specific details of the candidacy requirements can be found on the [Departmental website](#).

While studying full-time in the PhD program:

- a) Students will be required to complete Engineering 601 and 603 at the beginning of their graduate studies program.
- b) Students in the PhD program who completed the course in the MSc program will not be required to take Engineering 601 and 603 for the second time.
- c) Students who are required to take Engineering 601 and 603 must successfully present two seminars.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission or for grades below "B".

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Where appropriate, PhD students may take 500-level undergraduate courses for credit with approval of the supervisor and the Department (a maximum of 3 units for PhD). Undergraduate courses will not count toward the PhD program requirements.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy. The maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

In the Doctor of Philosophy, a supervisor to provide guidance to the student is normally selected at the time of admission.

## Research Proposal Requirements

The written thesis proposal is evaluated and approved by the candidacy examination committee as part of the candidacy requirements. Specific requirements for the proposal and the format of its evaluation can be found on the [Departmental website](#).

## Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs.

## Doctoral Candidacy Requirements

All Doctoral students are required to pass a Field of Study examination in Electrical, Computer, and Software Engineering and an oral thesis proposal examination. Specific details of the examination format and other candidacy requirements can be found on the [Departmental website](#).

## Doctoral Final Oral Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

General Program Information

## UCalgary

The Centre for Environmental Engineering Research and Education (CEERE) in the Schulich School of Engineering (SSE) has the overall responsibility for the co-ordination and delivery of a comprehensive postgraduate program specialization in the multi-disciplinary field of energy & environment. All five engineering departments participate in delivering this SSE-wide specialization.

Applications for admission to the Faculty of Graduate Studies should be submitted to the engineering department that best matches the applicant's undergraduate and/or postgraduate academic training.

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Degrees with an interdisciplinary specialization in Energy & Environment:

- Doctor of Philosophy (PhD)
- Master of Science (MSc), thesis-based
- Master of Engineering (MEng), thesis-based and course-based

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Location: Engineering Building, Room ENB 202

Email address: [ceere@ucalgary.ca](mailto:ceere@ucalgary.ca)

Web page URL: [schulich.ucalgary.ca/CEERE](http://schulich.ucalgary.ca/CEERE)

### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: [MEng@ucalgary.ca](mailto:MEng@ucalgary.ca)

## Admissions

### Program Admissions Information

See departmental and program sections in this Calendar for deadlines regarding submission of complete applications for students with international transcripts or with Canadian and U.S. transcripts.

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In addition to the Faculty of Graduate Studies [requirements](#) and home department requirements, the Energy & Environment specialization requires:

#### Master of Engineering and Master of Science

A bachelor's degree in engineering.

*Note: Applicants with applied science degrees may be considered, but additional undergraduate engineering courses may be required.*

#### Doctor of Philosophy

A master's degree in engineering.

*Note: Transfer to the doctoral program without completing the master's degree may be approved for exceptional students.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and to the course requirements described below, students should consult their "home" department in the Schulich School of Engineering for any additional program or course requirement(s).

## Master of Engineering (Course-based Route)

Students must complete 30 units of coursework as follows:

a) 3 units of required courses:

- **ENEN671 Energy and Environment**

b) 15 units of required Department courses from:

- **ENCH609 Natural Gas Processing Technology**
- **ENCH630 Electrochemical Engineering**
- **ENCH650 CCUS: Princ. Tech & Analysis**
- **ENCH673 Engg Principles Biotechnology**
- **ENCH675 Data Sci & Mach Learn in ENCH**
- **ENCH687 Petroleum Economics**

c) 12 units of courses from the approved list of courses meeting the requirements for the Interdisciplinary Specialization, with approval from the Graduate Program Director.

## Master of Engineering (Thesis-based Route)

A minimum of 12 units graduate courses. **ENEN671 Energy and Environment** is required, together with at least one course selected from a list of courses related to Energy and Environment available from CEERE.

*Note: Students with applied science undergraduate degrees may be required to take additional prerequisite courses at the undergraduate level.*

## Master of Science

A minimum of 12 units graduate courses. **ENEN671 Energy and Environment** is required, together with at least one course selected from a list of courses related to Energy and Environment available from CEERE.

*Note: Students with applied science undergraduate degrees may be required to take additional prerequisite courses at the undergraduate level.*

## Doctor of Philosophy

For applicants with Bachelor of Science and Master of Science degrees in Engineering:

A minimum of 6 units graduate courses. **ENEN671 Energy and Environment** is required. In case Environmental Engineering 671, or its equivalent, has already been completed, at least one course must be selected from a list of courses related to Energy and Environment available from CEERE.

For applicants with a bachelor's degree in Engineering, but without a completed master's degree:

A minimum of 18 units graduate courses. **ENEN671 Energy and Environment** is required, together with at least two courses selected from a list of courses related to Energy and Environment available from CEERE.

*Note: Students with applied science undergraduate degrees may be required to take additional prerequisite courses at the undergraduate level.*

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process, in consultation with the proposed

supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

## Time Limit

Expected completion time is two years for the Master of Science degree, and three years for the Doctor of Philosophy. Maximum completion time is four years for the Master of Science and Master of Engineering (Thesis) degrees and six years for the Master of Engineering (course-based) and Doctor of Philosophy degrees.

## Supervisory Assignment and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All students are required to have a thesis supervisor before the second annual registration. For students in the Master of Science and Doctor of Philosophy degree programs, a supervisor is normally appointed at the time of admission. Master of Engineering (course-based) students do not require a supervisor.

## Required Examinations

### Doctoral Candidacy Requirements

All Doctoral students are required to pass a written Field of Study examination and an oral thesis proposal examination. Specific details of the examination format and other candidacy requirements can be found at <https://grad.ucalgary.ca/current-students/thesis-based-students/exams/candidacy>.

### Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the home Department minimum requirements are as follows:

### MSc and MEng (thesis-based) Final Oral Examination

#### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

### Doctoral Final Oral Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

#### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral

examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- [Engineerin](#) (offered jointly through the Department of Electrical and Software Engineering and the Department of Computer Science)
- [Energy&Env](#)
- [Environ En](#)
- [Energy&Env](#)
- [Wearable T](#)

The MSc program may be completed on a full-time or a part-time basis. For details, see <https://grad.ualgary.ca/future-students/explore-programs/electrical-and-computer-engineering-msc-thesis>.

Department Office (MSc and PhD)

Location: ICT Building, Room 402

Program number: 403.220.5806

Web page URL: <https://schulich.ualgary.ca/electrical-software>

Email address: <mailto:ese.gradstudies@ualgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ualgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-master-science-thesis-based>.

In addition to Faculty of Graduate Studies' [admission](#) requirements and the Schulich School of Engineering requirements, the Department requires:

- A four-year bachelor's degree in electrical engineering or computer or software engineering.
- Applicants with a four-year bachelor's degree in other disciplines may be considered but additional undergraduate courses in electrical engineering or computer or software engineering (as determined by the Graduate Program Director) may be required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- Normally, 12-21 units of coursework at the graduate level.

While studying full-time in the MSc program:

- Students will be required to complete [ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#) at the beginning of their graduate studies program.
- Students who are required to take Engineering 601 and 603 must successfully present two seminars.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission or for grades below "B".

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Where appropriate, MSc students may take 500-level undergraduate courses for credit with approval of the supervisor and the Department (a maximum of 6 units for MSc). Undergraduate courses will not count toward the MSc program requirements.

### Time Limit

Expected completion time is 20 months of full-time study for the Master of Science. The maximum completion time is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

## Supervisory Assignments

In the Master of Science, a supervisor to provide guidance to the student is normally selected at the time of admission.

## Research Proposal Requirements

As required by the Supervisor.

## Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

## Final Oral Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Schulich School of Engineering minimum requirements are as follows:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary Academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Master's thesis students are normally admitted as full-time students. The Head of the Department or designate may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Department Office (MSc and PhD)

Location: ICT Building, Room 402

Program number: 403.220.5806

Web page URL: <https://schulich.ucalgary.ca/electrical-software>

Email address: <mailto:ese.gradstudies@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/electrical-computer-engineering-master-science-thesis-based>.

In addition to Faculty of Graduate Studies and the Schulich School of Engineering requirements, the Department requires:

A four-year bachelor's degree in software engineering or equivalent from a recognized institution. In addition, applicants must have:

- a) At least one year of experience in software development.
- b) Background knowledge in software engineering methods and concepts, and their wide range of applications. Applicants should be able to design and develop software systems in either an academic or industrial setting.
- c) Knowledge of object-oriented design and human-computer interaction.

Applicants with a four-year bachelor's degree in other disciplines may be considered, but additional undergraduate courses in software engineering (as determined at admission by the Graduate Program Director) may be required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies and the Schulich School of Engineering requirements, the Department requires:

a) 12 units selected from:

**Earn at least 12 credits from the following:**

- ENSF603 - Modeling and Measurement of Software Performance  
**OR** ENSF604 - Theoretical Foundations of Software Engineering  
**OR** ENSF606 - Software Engineering Fundamentals  
**OR** ENSF619 - Special Topics  
**OR** SENG622 - Software Release Planning  
**OR** SENG627 - Software Engineering Decision Support  
**OR** SENG629 - Software Engineering Standards and Models  
**OR** SENG637 - Dependability and Reliability of Software Systems  
**OR** SENG643 - Automated Software Engineering  
**OR** SENG696 - Agent-Based Software Engineering  
**OR** ENEL602 - Virtual Environments and Applications  
**OR** ENEL645 - Data Mining & Machine Learning

##### Additional Comments:

b) An applied software engineering project written up as a Master of Science thesis and examined by an examination committee as specified in the Faculty regulations.

While studying full-time in the MSc program:

- Students will be required to complete **ENGG601 Professional Development I** and **ENGG603 Professional Development II** at the beginning of their graduate studies program.
- Students who are required to take Engineering 601 and 603 must successfully present two seminars.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission or for grades below "B".

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Where appropriate, MSc students may take 500-level undergraduate courses for credit with approval of the supervisor and the Department (a maximum of 6 units for MSc). Undergraduate courses will not count toward the PhD program requirements.

### Time Limit

Expected completion time is 20 months of full-time study for the Master of Science. The maximum completion time is four years.

### Other Information

Students enrolled in any of the engineering graduate programs may opt, in addition to their normal required course load, to undertake an international project outside Canada. The duration of the project should be between four and six months.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

In the Master of Science, a supervisor to provide guidance to the student is normally selected at the time of admission.

### Research Proposal Requirements

As required by the Supervisor.

### Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Schulich School of Engineering minimum requirements are as follows:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary Academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

### **Financial Assistance**

#### **Type**

Completion Requirement

#### **Additional Comments:**

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

Degrees with an interdisciplinary specialization in Environmental Engineering:

- Doctor of Philosophy (PhD)
- Master of Science (MSc), thesis-based
- Master of Engineering (MEng), thesis-based and course-based

The Centre for Environmental Engineering Research and Education (CEERE) in the Schulich School of Engineering (SSE) has the overall responsibility for the co-ordination and delivery of a comprehensive postgraduate program specialization in the interdisciplinary field of environmental engineering. All five engineering departments participate in delivering this SSE-wide environmental engineering specialization.

Applications for admission to the Faculty of Graduate Studies should be submitted to the engineering department that best matches the applicant's undergraduate and/or postgraduate academic training.

Note: Students applying to the MEng (course-based) with a specialization in Environmental Engineering must submit their applications to either: a) the Department of Chemical and Petroleum Engineering; or b) the Department of Civil Engineering.

Location: Engineering Building, Room ENA202B

Email address: <mailto:ceere@ucalgary.ca>

Web page URL: <http://www.schulich.ucalgary.ca/CEERE/>

## Admissions

### Program Admissions Information

See departmental and program sections in this Calendar for deadlines regarding submission of complete applications for students with international transcripts or with Canadian and US transcripts.

In addition to the Faculty of Graduate Studies [requirements](#) and home department requirements, the Environmental Engineering specialization requires:

### Master of Engineering and Master of Science

- A bachelor's degree in engineering.

*Note:* Applicants with applied science undergraduate degrees may be considered, but additional undergraduate engineering courses may be required.

### Doctor of Philosophy

- A master's degree in engineering, preferably in environmental engineering or equivalent.

*Note:* Transfer to the doctoral program without completing the master's degree may be approved for exceptional students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and the course requirements described below, students should consult their home department in the Schulich School of Engineering for any additional program or course requirement(s).

#### Master of Engineering (course-based route) in Chemical and Petroleum Engineering and Civil Engineering, with a specialization in Environmental Engineering

All Master of Engineering (course-based) students in the Environmental Engineering specialization will be required to complete 30 units as follows:

a) 12 units of Core Engineering Courses:

##### Complete ALL of the following Courses:

- ENGG681 - Engineering Tools  
**AND** ENGG682 - Sustainability Engineering  
**AND** ENGG683 - Innovation and Entrepreneurship  
**AND** ENGG684 - Introduction to Project Management

b) 18 units of Environmental Engineering Specialization Courses from the list below. Any variations in required courses will be with the approval of the Department.

##### Earn at least 18 credits from the following:

- ENEN603 - Principles Of Environmental Engineering  
**OR** ENEN605 - Environmental Chemistry and Microbiology  
**OR** ENEN620 - Water Quality  
**OR** ENEN627 - Contaminant Transport  
**OR** ENEN641 - Air Pollution Control Engineering (Inactive)  
**OR** ENEN651 - Advanced Topics in Solid Waste Engineering  
**OR** ENEN653 - Contaminated Soil Remediation  
**OR** ENEN663 - Biological Processes for Wastewater Treatment  
**OR** ENEN665 - Wastewater Issues for the Oil & Gas Industry  
**OR** ENEN693 - Life Cycle Assessment

Courses attempted but failed (with a grade of "C+" or lower) must be successfully repeated with a grade of at least a "B-" in each course. Any course deficiency must be cleared at the next available opportunity. If a student is unable to register for a course or withdraws from a course for valid reasons, the student may substitute a similar course from the courses approved for the graduate thesis-based program with the approval of the Department.

Students with non-engineering undergraduate degrees may be required to take additional prerequisite courses at the undergraduate level.

#### Additional Comments:

### Master of Engineering (Thesis-based Route)

- A minimum of 12 units. [ENEN603 PrinciplesOfEnvironEngineering](#) or [ENEN605 EnvironmentalChem&Microbiology](#) is normally required, together with at least one of [Environmental Engineering 621, 623, 625, 627 or 635](#), and at least one other Environmental Engineering course.
- Students with non-engineering undergraduate degrees may be required to take additional prerequisite courses at the undergraduate level.

### Master of Science

- A minimum of 12 units. [ENEN603 PrinciplesOfEnvironEngineering](#) or [ENEN605 EnvironmentalChem&Microbiology](#) is normally required, together with at least one of [Environmental Engineering 621, 623, 625, 627 or 635](#), and at least one other Environmental Engineering course.
- Students with non-engineering undergraduate degrees may be required to take additional prerequisite courses at the undergraduate level.

### Doctor of Philosophy

For applicants with Bachelor of Science and/or Master of Science degrees in Environmental Engineering:

A minimum of 6 units. One of [Environmental Engineering 621, 623, 625, 627 or 635](#) is normally required.

For applicants with Bachelor of Science and Master of Science degrees in Engineering, but not in Environmental Engineering:

A minimum of 9 units. Environmental Engineering 603 or 605 is normally required, together with at least one of [Environmental Engineering 621, 623, 625, 627 or 635](#).

For applicants with a bachelor's degree in Engineering, but without a completed master's degree:

A minimum of 18 units. Environmental Engineering 603 and 605 are normally required, together with at least one of [Environmental Engineering 621, 623, 625, 627 or 635](#), and at least one other Environmental Engineering course.

Students with non-engineering undergraduate degrees may be required to take additional prerequisite courses at the undergraduate level.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Expected completion time is two years for the Master of Science degree, and three years for the Doctor of Philosophy.

Maximum completion time is four years for the Master of Science and Master of Engineering (thesis-based) degrees and six years for the Master of Engineering (course-based) and Doctor of Philosophy degrees.

Master of Engineering (course-based) students are expected to enroll in full-time studies and to complete the program according to the schedule and normally within 8 months.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All students are required to have a thesis supervisor before the second annual registration. For students in the Master of Science and Doctor of Philosophy degree programs, a supervisor is normally appointed at the time of admission.

### Required Examinations

Final thesis oral examinations follow the requirements of the Faculty of Graduate Studies and the home graduate program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Environmental Engineering is also offered as an interdisciplinary specialization for the following degrees:

- Doctor of Philosophy (PhD)
- Master of Science (MSc), thesis-based

For more information on these degrees, see [Interdisciplinary Specializations](#).

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Environmental Engineering program.

### MEng Graduate Program Office

# UCalgary

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

## Admissions

### Program Admissions Information

Application deadline: See <https://grad.ucalgary.ca/future-students/explore-programs/environmental-engineering-meng-course>.

In addition to the minimum **requirements** of the Faculty of Graduate Studies and the Schulich School of Engineering, the program requires:

- BSc degree or equivalent.
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' **requirements** and the Schulich School of Engineering requirements, the Department normally requires:

**Complete ALL of the following Requirement Sets:**

- MEng, Course-based, Environmental Engineering

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion time is six years for a Master of Engineering (course-based) program. The Master of Engineering, course-based with Internship is normally a three-year program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

## Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

The MA, course-based is a continuous program with no scheduled break.

This one-year program includes significant independent research, is SSHRC-eligible, and is appropriate for students who intend to proceed to doctoral studies.

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

### Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department **website** for further details.

# UCalgary

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-master-arts-course-based>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A completed four-year undergraduate program (or equivalent) with a Major in English Literature or in a closely related discipline.
- b) A minimum admission grade point average of 3.3 on a four-point scale over the final 60 units of the undergraduate degree.
- c) A Statement of Intent.
- d) A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- e) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a grade of "A-" in two courses and "B+" in all other courses.
- f) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) 21 units in English at the 600 or 700 level beyond the Honours BA or equivalent.
- b) [ENGL710 Capstone Project](#)
- c) [ENGL691 Graduate Pro-seminar](#) or its equivalent.

All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for advanced credit must be made to the Department Head at the time of admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

With the approval of the Department, all MA students may take for credit up to 3 units at the 500 level (excluding English 504).

## Time Limit

Expected completion time is up to twelve months for the course-based Master of Arts. Maximum completion time is two years.

### Supervisory Assignments and Research Proposal Requirements

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students are initially assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

Thesis-based: By March 1 of the first year, each student must submit a proposed field of research and the name of a proposed supervisor to the Graduate Executive Committee for approval.

Course-based: By June 1, students will approach a faculty member, normally one with whom they have completed (or are completing) a graduate course, to request supervision for their capstone research project.

### Research Proposal Requirements

By June 15 students will prepare a topic proposal of two pages plus bibliography for the capstone course and submit it to the Graduate Program Office for approval. Further details are available from the department.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

The MA, thesis-based program includes significant independent research.

# UCalgary

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

## Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department [website](#) for further details.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-master-arts-thesis-based>

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate program (or equivalent) with a Major in English Literature or in a closely related discipline.
- A minimum admission grade point average of 3.3 on a four-point scale over the final 60 units of the undergraduate degree.
- A Statement of Intent.
- A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a grade of "A-" in two courses and "B+" in all other courses.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- 18 units in English at the 600 or 700 level beyond the Honours BA or equivalent.
- [ENGL691 Graduate Pro-seminar](#) or its equivalent.
- A scholarly and/or critical thesis (approximately 100 pp).

#### Copyediting

While suggestions for editorial changes are a normal part of the collaboration between a student, the supervisory committee and the academic community, having a thesis professionally edited is prohibited by the department.

All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Application for advanced credit must be made to the Department Head at the time of admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

With the approval of the Department, all MA students may take for credit up to 3 units at the 500 level (excluding English 504).

## Time Limit

Expected completion time is two years for the thesis-based Master of Arts. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are initially assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

Thesis-based: By March 1 of the first year, each student must submit a proposed field of research and the name of a proposed supervisor to the Graduate Executive Committee for approval.

Course-based: By June 1, students will approach a faculty member, normally one with whom they have completed (or are completing) a graduate course, to request supervision for their capstone

## Thesis Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

The thesis examination is open to the public.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

All students must be registered full-time. Students may be considered for part-time status with departmental approval. Please consult the Department of English for more information.

### Specialization:

- Literature in English

A Creative Writing option is also available. Consult the department [website](#) for further details.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [english.ucalgary.ca](http://english.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/english-doctor-philosophy-thesis-based>

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate program (or equivalent), and a completed Master's degree. At least one of the degrees must be in English Literature. In exceptional circumstances, degrees in a closely related discipline may meet admission requirements.
- A grade point average of 3.5 on a four-point scale at the graduate level.
- A Statement of Intent.
- A 5-10 page sample of critical writing; for creative writing applicants, an additional 10-page sample of creative writing.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0 (with no band less than 6.5); a CAEL score of 70 (with no section less than 65); a PTE score of 68. This requirement can also be met by completing the [Academic Communication Certificate](#) with a grade of "A-" in two courses and "B+" in all other courses.
- Two reference letters.
- A curriculum vitae.

## Program Details

### Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

#### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) 18 units in English at the 600 or 700 level beyond the Master's.

b) **ENGL691 Graduate Pro-seminar** or its equivalent.

c) A demonstrated reading knowledge of a language other than English. Students are encouraged to establish competency in a language that contains a body of texts relevant to their program of study. This requirement can be met in one of the following ways:

A minimum grade of "B" in 6 units at a senior (300) level in a language course.

Passing the department reading exam, which is set twice a year.

Documentation establishing native proficiency in a language other than English. It is the responsibility of the student to supply evidence of native proficiency or evidence that course work in a language at another university meets the requirement spelled out in this guide. Students who do not meet the requirement upon entry should consult with the Associate Head (Graduate Program) no later than the week before classes begin about the best approach to take.

d) Written and oral Field of Study Examinations.

e) A thesis proposal.

f) A doctoral thesis on approved topic and an oral thesis examination.

#### Copyediting

While suggestions for editorial changes are a normal part of the collaboration between a student, the supervisory committee and the academic community, having a thesis professionally edited is prohibited by the department.

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All students must attend an orientation session.

Students must register for courses by the end of June. Continuing students and new students who are able to do so should consult the course instructors before they register or as soon as they arrive on campus. Final approval to enter a course is given by the Head or Associate Head of the Department.

Students wishing to enroll in English 693, 694, 695, or 698 must submit a portfolio of their own work for evaluation before consent to register will be given. Details of this procedure are available from the Department of English.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Application for [advanced credit](#) must be made to the Department Head at the time of admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of English will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for up to three units in a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

For the first eight months of the program, students are assigned an interim advisor to give them time to familiarize themselves with faculty members' research before securing a permanent supervisor.

By March 1 of the first year, each student will submit the name of a proposed supervisor and the proposed thesis research focus to the Graduate Executive Committee for approval.

By September 30 of the second year, the student, in consultation with the supervisor, will submit the names of the proposed supervisory committee, Field of Study, and initial thesis proposal to the Graduate Executive Committee for approval.

## Required Examinations

### Candidacy

Before formally embarking on the writing of the PhD thesis, all students must pass a Field of Study Written Examination, a Field of Study Oral Examination and pass a Thesis Proposal supervisory committee meeting and review. Details about the examination format and other candidacy requirements are available at: <https://arts.ucalgary.ca/english/current-students/graduate/doctoral-candidacy>.

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

The thesis examination is open to the public.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to have their applications to the Department by December 15.

## Overview

### General Program Information

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Geomatics Engineering program.

### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

# UCalgary

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/geomatics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geomatics-engineering-master-engineering-course-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements:

Students must complete 30 units of coursework as follows:

- a) 12 units of required courses:

##### Complete ALL of the following Courses:

- ENGG680 - Introduction to Digital Engineering  
**AND** ENGO634 - (ENGO 431) Principles of Photogrammetry  
**AND** ENGO641 - (ENGO 451) Design and Implementation of Geospatial Information Systems  
**AND** ENGO650 - (ENGO 465) Satellite Positioning

Note: students with a BSc in Geomatics Engineering can replace **ENGO634 (ENGO431)Prncpls of Phtgrmmtry** and **ENGO650 (ENGO465)Satellite Positioning** with other graduate courses with approval of the Graduate Program Director.

- b) A minimum of 9 units of geomatics engineering graduate courses.

c) A minimum of 3 units of engineering graduate courses from the following list:

**Complete ANY of the following Courses:**

- ENGG683 - Innovation and Entrepreneurship  
**OR** ENGG684 - Introduction to Project Management  
**OR** ENGG687 - Ethics, Law, and the Engineering Profession

d) A maximum of 6 units graduate courses with approval by Graduate Program Director.

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Independent Study Courses

Course-based Master of Engineering students can have no more than three independent study courses count towards their degree requirements.

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

In addition, the Department offers a designated set of graduate courses in each of the specialization areas and interdisciplinary areas. Additional graduate courses are offered as Special Studies and Project courses.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

#### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

#### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion times are six years for a Master of Engineering (course-based). The Master of Engineering, course-based with Internship is normally a three-year program.

See individual program pages on the Future Students [website](#).

#### Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Positioning, Navigation and Wireless Location
- Geodesy, Remote Sensing and Earth Observation
- Digital Imaging Systems
- GIScience and Land Tenure
- [Energy&Env](#)
- [Environ En](#)
- [Wearable T](#)

Location: Schulich School of Engineering, 'E' Block

Program number: 403.220.5821

Email address: <mailto:geo.grad@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/geomatics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geomatics-engineering-master-science-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters are required for thesis-based (MSc) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have

been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) A minimum of 12 units at the graduate level, with no fewer than 6 units of Geomatics Engineering specific graduate courses.
- b) Professional Development Seminars ([ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#)).
- c) A thesis related to original engineering research.

#### Independent Study Courses

Thesis-based Master's students can have no more than one independent study course count towards their degree requirements.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

In addition, the Department offers a designated set of graduate courses in each of the specialization areas and interdisciplinary areas. Additional graduate courses are offered as Special Studies and Project courses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

#### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Not applicable.

#### Time Limit

Typical completion time is one to two years for full-time students in a master's program. Maximum completion time is four years.

See individual program pages on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs>.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [academic regulations](#)) and are approved by the Department Head or the Graduate Program Director.

## Research Proposal Requirements

A thesis proposal accepted by the supervisor is required no later than 16 months after initial registration. The thesis topic should deal with original theoretical or practical research in Geomatics Engineering.

The thesis proposal should include the following:

1. Statement of the problem.
2. Research objectives.
3. Literature review.
4. Methodology and procedures.
5. Outline of thesis contents.
6. Proposed time schedule.
7. Bibliography and references.

## Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Schulich School of Engineering minimum requirements are as follows:

### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Positioning, Navigation and Wireless Location
- Geodesy, Remote Sensing and Earth Observation
- Digital Imaging Systems
- GIScience and Land Tenure
- [Energy&Env](#)
- [Environ En](#)
- [Wearable T](#)

Location: Schulich School of Engineering, 'E' Block

Program number: 403.220.5821

Email address: [geo.grad@ucalgary.ca](mailto:geo.grad@ucalgary.ca)

Web page URL: <https://schulich.ucalgary.ca/geomatics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geomatics-engineering-doctor-philosophy-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- a) MSc degree, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- b) A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- c) Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- d) Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

## Program Details

### Simple Requisites

Program/Course Requirements
Type

## Completion Requirement

### Additional Comments:

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) A minimum of 9 units at the graduate level beyond the Master of Science course requirements, with no fewer than 3 units of Geomatics Engineering specific graduate courses. For students who transfer from a Master of Science to a doctoral program, a minimum of 6 units at the graduate level beyond the Master of Science course requirements.
- b) Professional Development Seminar ([ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#)).
- c) A thesis proposal that includes a literature review and the Field of Study written and oral examinations (see Candidacy and Required Examinations).
- d) A thesis related to advanced original engineering research.

### Independent Study Courses

Doctor of Philosophy students can have no more than one independent study course count towards their degree requirements. Students who transfer from the Master of Science to the Doctor of Philosophy program can have no more than two independent study courses count towards their degree requirements.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

In addition, the Department offers a designated set of graduate courses in each of the specialization areas and interdisciplinary areas. Additional graduate courses are offered as Special Studies and Project courses.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Typical completion time is three to four years in a doctoral program. Maximum completion time is six years for a doctoral program.

See individual program pages on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs>.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

### Supervisory Assignments

## **Supervisory Assignments**

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [graduate academic regulations](#)) and are approved by the Department Head or the Graduate Program Director.

## **Research Proposal Requirements**

The doctoral thesis proposal requirements, including the outline of the proposal's contents, are the same as those for the Master of Engineering (thesis-based). The thesis must demonstrate the candidate's ability to pursue original research at a high level and represent a distinct advance in knowledge on the subject. The research should be of the recognized standard of technical journals requiring critical review. The supervisor and supervisory committee will normally require progress reports every six months during the doctoral program.

The thesis proposal should include the following:

1. Statement of the problem.
2. Research objectives.
3. Literature review.
4. Methodology and procedures.
5. Outline of thesis contents.
6. Proposed time schedule.
7. Bibliography and references.

## **Required Examinations**

In addition to the Faculty of Graduate Studies requirements, the program requires:

### **Candidacy**

To be admitted to candidacy, doctoral students must successfully complete a thesis proposal evaluation and a written field of study examination and an oral examination on the thesis proposal. See [Geomatics Engineering Doctoral Candidacy Requirements](#) for more information.

### **Thesis Examination**

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Schulich School of Engineering minimum requirements are as follows:

### **Doctoral Final Oral Examination**

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

#### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The MEng program may be completed on a full-time or part-time basis.

Three options are available for students entering the Master of Engineering (course-based) program:

- MEng, Mechanical Engineering
- MEng with an Interdisciplinary Specialization (Energy and Environment or Environmental)
- MEng with Pipeline Engineering Specialization

### Specializations:

- Pipeline Engineering
- [Energy&Env](#)
- [Environ En](#)

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Mechanical and Manufacturing Engineering program.

### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/mechanical-manufacturing/programs/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/mechanical-manufacturing-engineering-master-engineering-course-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate

program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering minimum requirements, the Department requires:

**Complete ANY of the following Requirement Sets:**

- MEng, Course-based Mechanical and Manufacturing
- MEng, Course-based Mechanical and Manufacturing with an Interdisciplinary Specialization
- MEng, Course-based, Mechanical and Manufacturing, Pipeline Engineering Specialization

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion time is six years for a Master of Engineering (course-based). The Master of Engineering, course-based with Internship is normally a three-year program.

### Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Pipeline Engineering
- [Energy&Env](#)
- [Environ En](#)
- [Energy&Env](#)

Department Office (MSc and PhD)

Location: Mechanical Engineering Building, Room 505 / Information & Communications Technology, Room 402

Phone number: 403.220.5771

Email address: [mailto:gradenme@ucalgary.ca](mailto:mailto:gradenme@ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/mechanical-manufacturing-engineering-doctor-philosophy-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- a) MSc degree, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- b) A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- c) Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- d) Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) For students entering the PhD program with a MSc or equivalent, at least 6 units beyond the Master's degree are required at the graduate level (600-level or higher).
- b) For students without a MSc or equivalent, at least 21 units at the graduate level (600-level or higher) are required. Of these courses, 6 units may be taken from outside the Department, no more than 3 units can be a senior undergraduate course (500-level), and three units must be selected from either [ENME631 Advncd Nmrcl Mthds For Engg](#) or [ENME633 Mathematical Techn For Engineers](#).
- c) In addition to the courses listed in (a) or (b), students must present at the annual Mechanical Engineering Graduate Student Conference before their candidacy exam to receive credit for [ENME713 Research Seminar II](#).
- d) Following the candidacy exam, students must make one additional presentation at the Mechanical Engineering Graduate Student Conference in the Winter Term as partial fulfillment of the degree requirement.
- e) Students wishing to complete the Pipeline Engineering Specialization must complete 9 units of pipeline engineering approved courses with a pipeline engineering project.

Note: The student's supervisor and the Associate Head (Graduate Studies) must approve all courses taken outside of the department.

#### Pipeline Engineering Approved Courses:

- [ENME619 Special Problems \(619.82\)](#)
- [ENME620 ENGO for Pipeline Systems](#)
- [ENME622 Pump and Compressor Stations](#)
- [ENME624 Fundamentals of Pipeline ECON](#)
- [ENME626 Corrosion Science Pipelines](#)
- [ENME628 Pipeline Coatings](#)
- [ENME630 Fndmtl's Lqd Hydr'l'c Pipelines](#)
- [ENME632 Fndmtl's Gas Hydr'l'c Pipelines](#)
- [ENME634 Pipeline Geotechnical ENGG](#)
- [ENME636 Strct'l Anly's Buried Steel PL](#)
- [ENME640 Stress Corrosion Cracking Mat](#)
- [ENME667 Fracture Mechanics](#)
- [ENME669 Fatigue of Materials](#)

This list is provided as a reference. At the discretion of the Graduate Program Director and the Director of the Pipeline Engineering Centre (PEC), additional courses may be approved for the pipeline engineering specialization. Please be advised that not all of these courses may be offered in any one semester. For more information about approved courses, contact the Graduate Program Advisor at <mailto:gradenme@ucalgary.ca>.

Further information about this specialization is available on the Pipeline Engineering Centre's website <https://schulich.ucalgary.ca/pec>.

#### Additional Program Information

##### Type

Completion Requirement

Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

See Program/Course requirements for details.

### Time Limit

Typical completion time is three to four years in a doctoral program. Maximum completion time is six years for a doctoral program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

### Other Information

Students may hire an editor to copyedit their theses subject to the conditions outlined in the Faculty of Graduate Studies thesis guidelines.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

Additional Comments:

### Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see academic regulations) and are approved by the Department Head or the Graduate Program Director.

### Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs.

### Doctoral Candidacy Requirements

All Doctoral students must pass an oral Field of Study examination and an oral defence of the thesis proposal. For complete details of the examination format and other candidacy requirements, see the Candidacy Requirements document available on the Department website.

## Doctoral Final Oral Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Pipeline Engineering
- [Energy&Env](#)
- [Environ En](#)
- [Energy&Env](#)

### Department Office

Location: Mechanical Engineering Building, Room 505 / Information & Communications Technology, Room 402

Phone number: 403.220.5771

Email address: <mailto:gradenme@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/mechanical-manufacturing>

## Admissions

### Program Admissions Information

Deadline for submission of completed applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/mechanical-manufacturing-engineering-master-science-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters are required for thesis-based (MSc) graduate programs. References are not required for course-based (MEng) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

ENME636 Strct'l Anly's Buried Steel PL

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

a) At least 15 units, of which 6 units may be taken from outside the Department, and no more than 3 units can be a senior undergraduate course (500-level).

b) 3 units must be selected from either [ENME631 Advncd Nmrcl Mthds For Engg](#) or [ENME633 Mathematical Techn For Engineers](#).

c) In addition to the 15 units, students must present at the annual Mechanical Engineering Graduate Student Conference in the Winter Term to receive credit for Mechanical Engineering 613.

d) Students wishing to complete the Pipeline Engineering Specialization must complete 9 units of pipeline engineering approved courses with a pipeline engineering project.

#### Pipeline Engineering Approved Courses:

- [ENME619 Special Problems \(619.82\)](#)
- [ENME620 ENGO for Pipeline Systems](#)
- [ENME622 Pump and Compressor Stations](#)
- [ENME624 Fundamentals of Pipeline ECON](#)
- [ENME626 Corrosion Science Pipelines](#)
- [ENME628 Pipeline Coatings](#)

- [ENME630 Fndmtl's Lqd Hydr'l'c Pipelines](#)
- [ENME632 Fndmtl's Gas Hydr'l'c Pipelines](#)
- [ENME634 Pipeline Geotechnical ENGG](#)
- [ENME636 Strct'l Anly's Buried Steel PL](#)
- [ENME640 Stress Corrosion Cracking Mat](#)
- [ENME667 Fracture Mechanics](#)
- [ENME669 Fatigue of Materials](#)

This list is provided as a reference. At the discretion of the Graduate Program Director and the Director of the Pipeline Engineering Centre (PEC), additional courses may be approved for the pipeline engineering specialization. Please be advised that not all of these courses may be offered in any one semester. For more information about approved courses, contact the Graduate Program Advisor at <mailto:gradenme@ucalgary.ca>.

Further information about this specialization is available on the Pipeline Engineering Centre's website [schulich.ucalgary.ca/pec](http://schulich.ucalgary.ca/pec).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

See Program/Course requirements for details.

### Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion times is four years for a Master of Science.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

### Other Information

Students may hire an editor to copyedit their theses subject to the conditions outlined in the Faculty of Graduate Studies [thesis guidelines](#).

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [Supervision](#)) and are approved by the Department Head or the Graduate Program Director.

## Final Oral Examination

*Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

This is a distance-delivery program with courses offered online only.

<https://schulich.ucalgary.ca/mechanical-manufacturing>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage: <https://schulich.ucalgary.ca/mechanical-manufacturing>.

In addition to the Faculty of Graduate Studies admission requirements, applicants to the Graduate Certificate in Pipeline Engineering are required to meet the following criteria:

- A four-year baccalaureate degree in engineering or equivalent from a recognized institution.

Note: As per [G.A.1 Qualifications](#) in the Graduate Calendar, in exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program. The candidate must provide the program director with evidence demonstrating the potential to successfully undertake this certificate program. Such candidates may also be required to participate in an in-person interview with the program director.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

Students must complete 12 units from the lists below, which must include at least one course from each thematic area:

*Conceptualization and Design Thematic Area:*

**Complete at least 1 of the following courses:**

- ENME664 - Pipeline Design
- OR ENME668 - Pipeline Economics
- OR ENME674 - Gas and Liquid Hydraulics
- OR ENME675 - Materials Selection and Metallurgy
- OR ENME676 - Pipeline Stress Analysis
- OR ENME677 - Geotechnical Aspects in Pipeline Engineering
- OR ENME678 - Environmental Impact and Regulatory Matters

*Construction Thematic Area:*

**Complete at least 1 of the following courses:**

- ENME642 - Construction & Project Management
- OR ENME644 - Welding & Joining Processes

*Operation and Maintenance Thematic Area:*

**Complete at least 1 of the following courses:**

- ENME680 - Operation and Maintenance
- OR ENME682 - Automation and Control Systems
- OR ENME684 - Corrosion, Cracking, and Coatings
- OR ENME686 - Integrity Management
- OR ENME688 - Pipeline In-Line Inspection Technologies
- OR ENME689 - Pipeline Leak Detection Technologies

#### Additional Comments:

Students must pass each course with a grade of "B-" or higher and maintain a cumulative GPA of 3.00 to progress in the certificate program. Students who receive a grade of "C+" or lower will be given one chance to retake the course, and if they do not attain a grade of "B" or higher they will be required to withdraw.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced Credit will not normally be granted towards the Graduate Certificate in Pipeline Engineering.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.  
The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

The expected completion time for the Certificate is four months for students in the intensive pathway (12 units in one term).  
The expected completion time for the Certificate is eight months for students completing it over two consecutive academic terms (6 units per term).

## Supervisory Assignments

A Coordinator is assigned to each cohort in the Graduate Certificate in Pipeline Engineering.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/doctor-design>.

The DDes targets mid-career design professionals, holding a professional design degree from an accredited school, and with at least seven years of professional experience in their discipline.

In addition to Faculty of Graduate Studies requirements for [Admission](#), the program requires:

- a) A professional design degree from an accredited school.
- b) minimum of seven years of professional experience in discipline.
- c) Research Statement:

A research statement outlining the applicant's ability to conduct doctoral-level, creative, design practice-based research. The research statement (max 2,500 words) should include:

- the applicant's reasons for pursuing the DDes degree;
- description of the area of practice the applicant is interested in and the opportunity or problem within that area that the applicant wants to explore;
- a description of the researcher's professional background and how it prepares them to undertake their research;

## UCalgary

- a description of the potential impact of the proposed research.

The research statement will be used by the Admissions Committee to determine if adequate supervisory resources are available. In no case will a student be admitted if an appropriate supervisor is not expected to be available.

d) Digital Portfolio:

A portfolio that provides examples of, or illustrates, the applicant's design work, professional work, consulting reports, policy reviews, research, creative thinking, community action, planning products, or graphics and visual communication.

e) Curriculum Vitae:

A current copy of curriculum vitae (CV).

f) Reference Letters

Two reference letters. These can be academic or professional references.

g) Formal Interview:

Applicants are required to participate in a formal interview (either in person or online) with the Graduate Program Director or their designate.

h) Proof of English Proficiency:

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; or a CAEL score of 70 with a minimum of 70 in each component. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

i) Funding Plan:

A funding plan that demonstrates that financial resources are available for the entire program of study.

j) Grade Point Average:

An admission grade point average (GPA) above 3.50 on a four-point scale. In some circumstances, alternate means of demonstrating academic capacity will be accepted for mature applicants who have been away from academia for an extended period of time.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements**, the program requires:

a) Core required courses:

**Complete ALL of the following Courses:**

- **APLA680 - Design Practice Research Project Definition**  
**AND APLA682 - Strategies for Design Practice Research I**  
**AND APLA685 - Strategies for Design Practice Research II**

b) **APLA681 Design Practice Resrch Sympsum**, typically offered twice per year.

c) Additional course work when recommended by the Graduate Program Director in consultation with the student's supervisor and supervisory committee.

d) A thesis proposal approved by the supervisory committee during a committee meeting.

e) A written thesis.

f) A gallery exhibition of the research work, publicly presented at one of the semi-annual symposia.

g) Successful completion of all examinations as described under 'Required Examinations'.

**Additional Comments:**

Students are expected to attend two on-site research symposia per year, for each year of their program.

In addition to Faculty of Graduate Studies thesis submission requirements, all DDes students are required to submit one bound copy of the thesis (bound in standard black cloth-covered cases, bearing the author's name, title of work, year and the School of Architecture, Planning and Landscape lettered in white), and one portable document format (.PDF) copy.

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a Reappraisal of Academic Assessments (Final Grades) within 5 business days of the start of the subsequent term.

Reappraisal of Academic Assessments (Final Grades) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

Advanced Credit is not available for DDes courses.

## Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

Students are expected to enrol on a full-time basis and complete the DDes within three years. The Faculty of Graduate Studies requires that a maximum completion time is six registration years. See Time Limits.

### Supervisory Assignments and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

In the first term of the program, each student will be assigned a supervisor by the Graduate Program Director.

Within three months of confirming their supervisor, DDes students must establish, in consultation with their supervisor, a supervisory committee. The supervisory committee must include at least two other members in addition to the supervisor and co-supervisor, if applicable.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for Candidacy and Thesis Examinations, the School of Architecture, Planning and Landscape requires:

## *Candidacy*

Doctoral students are required to complete all candidacy requirements. For details, see DDes Candidacy Requirements: <https://sapl.ucalgary.ca/future-students/graduate-research/doctor-design>.

## *Thesis Examination*

Final thesis oral examinations are open.

## *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

In Canada, the Canadian Architectural Certification Board (CACB) is the sole agency authorized by the Regulatory Organization of Architecture in Canada (ROAC) to accredit Canadian professional degree programs in architecture for the purposes of architectural licensure.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## **Admissions**

### **Program Admissions Information**

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/environmental-design-medes>.

The MEDes is a research degree that typically targets graduates of professional programs in architecture, planning and landscape architecture. In addition to Faculty of Graduate Studies requirements for [Admission](#), the program requires:

#### a) Research Statement

A clear, concise and substantive research statement (1,000 to 1,500 words), which informs the Admissions Committee of:

## UCalgary

the applicant's reasons for pursuing the MEDes degree

how the applicant's specific educational background and professional and personal experience relates to their proposed thesis project

the applicant's thesis research interests and how they align with an existing research group or individual researcher within the School of Architecture, Planning and Landscape

any communication the applicant has had with potential supervisors

It is highly recommended that applicants communicate with potential supervisors prior to making an application to ensure that their proposed project aligns with one of the School's research areas.

### b) Digital Portfolio

A portfolio that provides examples of or illustrates the applicant's design work, professional work, research, creative thinking, community action, planning products, or graphics and visual communication.

### c) Curriculum Vitae

A current copy of curriculum vitae (CV).

### d) Reference Letters

Three reference letters, of which at least two should be academic.

### e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); or an IELTS score of 7.5; or a CAEL overall score of 70 with a minimum score of 70 in each component. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

### f) Example of Writing

At least one example of the applicant's previous academic or professional work such as a written essay, published research paper, major academic paper, thesis, or consulting report.

### g) Funding Plan

A funding plan that demonstrates that financial resources are available for the entire program of study.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the MEDes must include completion of the following academic requirements:

##### a) Core required courses:

##### Complete ALL of the following Courses:

- APLA670 - Design Research Methods  
**AND** APLA672 - Design Research Writing  
**AND** APLA674 - Design Innovation

b) A minimum of 3 units of elective credit at the graduate level that is relevant to the student's area of research, chosen in consultation with their supervisor.

c) A thesis proposal approved by the supervisor (or supervisory committee for those students who have chosen to have a committee).

d) A written thesis.

e) Thesis examination.

**Additional Comments:**

Attendance at orientation for first year students is expected.

In addition to Faculty of Graduate Studies thesis submission requirements, all MEDes students are required to submit one bound copy of the thesis (bound in standard orange cloth-covered cases, bearing the author's name, title of work, year and the School of Architecture, Planning and Landscape lettered in white), and one portable document format (.PDF) copy.

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

### Advanced Credit

A student may apply for advanced credit for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See [Advanced Credit](#).

### Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Only undergraduate courses numbered 500-599 may be considered for graduate-level credit and are subject to approval by the Program Director.

### Time Limit

Given the post-professional nature of the MEDes degree, students are expected to complete their degrees within four terms. Note that Faculty of Graduate Studies regulations require that students must complete all degree requirements within four registration years. See [Time Limits](#).

### Supervisory Assignments and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

At the time of admission, each MEDes student will be assigned a supervisor.

MEDes students are only required to have one supervisor. MEDes students may, in consultation with their supervisor, choose to have a committee. If so, then within three months of admission, MEDes students must establish, in consultation with their supervisor, a supervisory committee. The supervisory committee must include at least one other member in addition to the supervisor and co-supervisor, if applicable. This additional member must be from outside of the School of Architecture, Planning and Landscape.

## Required Examinations

### *Thesis Examination*

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Thesis Proposal Requirements

The supervisor (or the supervisory committee, if applicable) will approve final thesis proposals. Thesis proposals should clearly describe the project in terms of Title, Objectives, Background, Methodology and Expected Outcomes. Students are encouraged to include an explicit interventionist or problem-solving component.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/environmental-design-phd>.

In addition to Faculty of Graduate Studies requirements for Admission, the program requires:

a) Research Proposal

A research proposal that describes the nature of the thesis research the applicant expects to undertake. This will be used by an admissions committee as an indicator of the applicant's ability to conduct doctoral-level research and to determine if adequate supervisory resources are available. Only if such resources are available will the student be admitted. Please note that this research statement (maximum of 1500 words) must include the following sections: Background, research questions, literature review, research methodology, and broader impacts of the proposed research. The research statement should indicate potential supervisors and/or committee members, and whether they have been contacted by the applicant.

b) Digital Portfolio

A portfolio that provides examples of or illustrates the applicant's design work, professional work, research, creative thinking, community action, planning products, or graphics and visual communication.

c) Curriculum Vitae

A current copy of curriculum vitae (CV).

d) Reference Letters

Three reference letters, of which at least two should be academic.

e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; or a CAEL score of 70 with a minimum of 70 in each component. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in each course.

f) Example of Writing

At least one example of the applicant's previous academic or professional work, such as a written essay, published research paper, major academic paper, thesis, or consulting report.

g) Grade Point Average

An admission grade point average (GPA) above 3.50 on a four-point scale.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies requirements, the PhD must include completion of the following academic requirements:

a) Core required courses:

**Complete ALL of the following Courses:**

- APLA670 - Design Research Methods  
**AND** APLA672 - Design Research Writing  
**AND** APLA674 - Design Innovation

##### Additional Comments:

b) A minimum of 3 units of elective credit at the graduate level that is relevant to the student's area of research, chosen in consultation with their supervisor.

c) Additional course work when recommended by the Graduate Program Director in consultation with the student's supervisor and supervisory committee.

d) A thesis proposal approved by the supervisory committee during a committee meeting.

- e) A written thesis.
- f) Successful completion of all examinations.

Attendance at orientation for first year students is expected.

In addition to Faculty of Graduate Studies thesis submission requirements, all PhD students are required to submit one bound copy of the thesis (bound in standard black cloth-covered cases, bearing the author's name, title of work, year and the School of Architecture, Planning and Landscape lettered in white), and one portable document format (.PDF) copy.

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

A student may apply for advanced credit for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See [Advanced Credit](#).

### Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Students are expected to enroll on a full-time basis and complete the degree requirements within four registration years. Maximum completion time is six registration years. See [Time Limits](#).

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

At the time of admission, each student will be assigned an interim supervisor. The Graduate Program Director must approve a permanent supervisor no later than twelve months after first registration.

Within three months of confirming their supervisor, PhD students must establish, in consultation with their supervisor, a supervisory committee. The supervisory committee must include at least two members in addition to the supervisor and co-supervisor, if applicable. Of these two members, at least one must be from outside of the School of Architecture, Planning and Landscape.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for [Candidacy](#) and [Thesis Examinations](#), the School of Architecture, Planning and Landscape requires:

### Candidacy

Doctoral students are required to complete all candidacy requirements. For details, see [SAPL Candidacy Requirements](#).

### Thesis Examination

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Please refer to the SAPL Funding Policy: <https://sapl.ucalgary.ca/future-students/admissions/entrance-scholarships-awards>.

## Overview

### General Program Information

#### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the Graduate Certificate in Fundamental Data Science and Analytics may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the [GDIP Data](#) program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the [Master of](#) within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/data-science-analytics-certificate-course-based>.

In addition to the Faculty of Graduate Studies [admission requirements](#), all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see [Qualifications](#)). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Certificate requires 12 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) will not normally be given for any of the Data Science and Analytics credentials.

### Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limits

The expected completion time for the Graduate Certificate in Fundamental Data Science and Analytics is four months. The maximum completion time for the Certificate is three years from the start of the program.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is six years from the start of the first credential in the laddering process.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Certificate program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) Twelve units in a two-year period, including History and Philosophy of Physical or Human Geography, and at least one graduate-level methods course in Geography.
- b) Four semesters of [GEOG601 Grad Research Seminar](#) (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.
- c) An approved thesis proposal completed within the first year of the program.

For detailed information on courses and program requirements please refer to: [geog.ucalgary.ca](http://geog.ucalgary.ca).

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### **Flexible Grade Option (CG Grade)**

The department of Geography will not permit the Flexible Grade Option (CG Grade) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### **Credit for Undergraduate Courses**

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

#### **Time Limit**

Expected completion time is two years. Maximum completion time is four years.

#### **Supervisory Assignments, Research Proposal and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

Each thesis-based graduate student has a supervisor appointed upon entry to the program.

#### **Research Proposal Requirements**

Thesis-based Master's students normally complete a written thesis proposal, approved by the supervisor and two additional examiners, within twelve months of registration in the program.

#### **Thesis Examination**

Thesis examinations are open.

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of

the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

The Master of Geographic Information Systems (MGIS), is a course-based program with a research component. The MGIS has a scheduled break in July and August. The program may be completed on a full-or part-time basis. Students can apply for direct entry admission to the MGIS degree or apply to the MGIS via the ladder pathway after completion of the [GCERT Geos](#).

### Laddered Pathway from the Graduate Certificate in Geospatial Information Technology to the Master of Geographic Information Systems

Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Master of Geographic Information Systems within five years of beginning the certificate.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-master-geographic-information-systems-course-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-master-geographic-information-systems-course-based).

- a) A statement of interest outlining the applicant's goals, motivation for applying to the program, and research area of interest.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

For the academic background requirements for the MGIS program or the Graduate Certificate in Geospatial Information Technology, the Department will accept a four-year BA or BSc degree in Geography or in any related field that makes use of spatial data. Examples include, but are not limited to: Anthropology, Archaeology, Biological Sciences, Computer Science, Ecology, Environmental Science, Geology/Geophysics, Geomatics Engineering, History, Management, Mathematics, Political

Science, Psychology, Tourism, Transportation Studies or Engineering, and Urban Studies.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

The MGIS requires 30 units of courses\*. At least 24 units of these must be at the 600 level or higher; the remaining 6 units may be at the 500 level. These will include:

a) Three core courses (9 units) in Geographic Information Sciences in the areas of Remote Sensing, Spatial Analysis and Geographic Information Systems:

**Complete ALL of the following Courses:**

- GEOG633 - Research & Applications in Remote Sensing  
**AND** GEOG639 - Adv Spatial Analysis & Modeling  
**AND** GEOG647 - Adv Res & Appl In Geog Info Syst

b) Two research-based courses (6 units) related to the area of Geographic Information Science:

**Complete ALL of the following Courses:**

- GEOG681 - Geographic Information Science Project: Theoretical Issues  
**AND** GEOG683 - Geographic Information Science Project: Application

#### Additional Comments:

c) Five additional courses (15 units) approved by the Graduate Program Director.

\* Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Master of Geographic Information Systems within five years of beginning the certificate.

Participation in the annual graduate student Department conference is recommended.

For course-based students, departures from regular departmental program/course requirements may be recommended on an individual basis with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Department

of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

MGIS students are allowed a maximum of 6 units credit at the 500 level.

## Time Limit

Minimum completion time is 16 months and maximum completion time is six years.

### Required Examination

#### Type

Completion Requirement

#### Additional Comments:

## Comprehensive Examination

MGIS comprehensive examination will be held as part of [GEOG683 GeogInfoScieProj:Application](#) and be based on project and course work. MGIS students will be examined on their comprehensive understanding of course material and their integrated professional knowledge/conception of geographic information science. Details about the timing and structure of the comprehensive examination can be found in the Department of Geography's Course-Based Program Handbook. Please contact the Graduate Program Director to request a copy of the Department of Geography's Course-Based Program Handbook.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-master-science-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-master-science-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Arts requirements, the Department requires the following:

- a) Twelve units in a two-year period, including History and Philosophy of Physical or Human Geography, and at least one graduate-level methods course in Geography.
- b) Four semesters of [GEOG601 Grad Research Seminar](#) (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.
- c) An approved thesis proposal completed within the first year of the program.

For detailed information on courses and program requirements please refer to: [geog.ucalgary.ca](http://geog.ucalgary.ca).

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

## Time Limit

Expected completion time is two years. Maximum completion time is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

Each thesis-based graduate student has a supervisor appointed upon entry to the program.

## Research Proposal Requirements

Thesis-based Master's students normally complete a written thesis proposal, approved by the supervisor and two additional examiners, within twelve months of registration in the program.

## Thesis Examination

Thesis examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

## Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/geography-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) Six units during the first two years in program, including History and Philosophy of Physical or Human Geography.
- b) Four semesters of [GEOG601 Grad Research Seminar](#) (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.

For detailed information on courses and program requirements please refer to: <https://arts.ucalgary.ca/geography>.

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

### Time Limit

Expected completion time is four years . Maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Each thesis-based graduate student has a supervisor appointed upon entry to the program. For PhD students, a supervisory committee should be appointed within three months of the appointment of supervisor.

### Research Proposal

Doctoral students must complete a written thesis proposal, approved by the supervisory committee, within twenty months of registration in the program.

### Candidacy

PhD candidacy requirements include a written and an oral Field of Study examination. Specific details of the examination format and other candidacy requirements can be found on the Geography website at <https://geog.ucalgary.ca/graduate/regulations>.

### Thesis Examination

Thesis examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](https://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

The MSc program may be taken on a part-time basis with consent of the Department.

Within the course-based Master of Science degree, an Interdisciplinary Specialization in Reservoir Characterization is offered. See [Reservoir](#).

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/geoscience-master-science-course-based>.

In addition to Faculty of Graduate Studies [admission](#) requirements and Faculty of Science requirements, the Department requires:

- Normally, a four-year Bachelor of Science degree or equivalent. An Honours degree in geology or geophysics, or a field related to geophysics, such as physics or mathematics, is preferred.
- A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies [requirements](#) and the Faculty of Science requirements, the Department requires:

Completion of a minimum of 27 units of coursework, which must include:

a) [GLGY670 Independent Study](#) or [GOPH675 Independent Study](#); and

b) 24 units of elective Geoscience courses (GLGY or GOPH):

- At least 12 of 24 units must be from 600- or 700-level courses.
- Up to 12 units of appropriate courses from another department may be substituted for Geoscience electives, subject to program approval.

Full-time students are normally expected to provide their own financial support and pay tuition and fees as outlined in the graduate student calendar since the department does not normally offer financial support to course-based Master of Science students.

Part-time students may be working in the field of Geology and/or Geophysics. An industrial supervisor can agree to work with the academic supervisor in the Department to supervise and evaluate the student's research project.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Application for advanced credit should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

The total of advanced credit and transfer credit in course-based Master's programs will generally not exceed either one-third of the program or 12 units, whichever is less.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is two years for full-time students in a course-based master's program. Maximum completion time is six years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

No financial support will be given to students enrolled in the course-based master's program.

## Overview

### General Program Information

The MSc program may be taken on a part-time basis with consent of the Department.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geoscience-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Science requirements, the Department requires:

- a) Normally, a four-year Bachelor of Science degree or equivalent. An Honours degree in geology or geophysics, or a field related to geophysics, such as physics or mathematics, is preferred.
- b) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- c) For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Science requirements, the Department requires:

Completion of a minimum of 12 units.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for **advanced credit** should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is two years for students in thesis-based master's degree programs. Maximum completion time is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

Upon admission into a thesis-based program, a student is assigned an interim supervisor by the Graduate Program Director, either based on prior communication between the student and a prospective supervisor, or chosen from the research field the student has specified. A permanent supervisor (usually the interim supervisor) is normally appointed within two months.

## Research Proposal Requirements

Master of Science thesis-based students must file a thesis proposal by March 1 of the second session of study for September registrants and July 1 for January registrants. The thesis proposal must not be more than five pages of text long and include an abstract and a list of references cited in the text. The supervisor will assess the proposal in detail.

## Required Examinations

### Thesis Examination

Master of Science thesis-based students have final thesis oral examinations that are open to the public, with a public presentation on the same day.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must have complete applications submitted to the Department by January 15.

## Overview

### General Program Information

The PhD program may be taken on a part-time basis with consent of the Department.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geoscience-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Science requirements, the Department requires:

- a) Normally, a Master of Science degree or equivalent in geoscience or a field related to geoscience, such as physics or mathematics.
- b) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- c) For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies requirements and Faculty of Science requirements, the Department requires:

- Completion of a minimum of 12 units in the first year of the program.

Subject to supervisor and Graduate Program Director approval, this requirement may be waived fully or partially, or course exemptions may be granted on the basis of comparable courses taken during a master's program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for advanced credit should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is three or four years for doctoral students. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Upon admission into a thesis-based program, a student is assigned an interim supervisor by the Graduate Program Director, either based on prior communication between the student and a prospective supervisor, or chosen from the research field the student has specified. A permanent supervisor (usually the interim supervisor) is normally appointed within two months. Supervisory committees for doctoral students are selected by consultation between the permanent supervisor and the student.

## Research Proposal Requirements

PhD students will submit a more substantial thesis research proposal within 18 months of registration. The thesis proposal will be judged a pass or fail by the Supervisory Committee. The thesis research proposal must be passed before the FOS oral examination can be scheduled. Details about the thesis research proposal and the Department of Geoscience's Doctoral Candidacy Requirements can be found at <https://science.ucalgary.ca/earth/current-students/graduate/procedures-policies-and-forms>.

## Required Examinations

### Candidacy

Doctoral students have a two-hour Field of Study (FOS) oral candidacy examination that must be completed by the twenty-eighth month of the program. The FOS oral examination cannot be attempted until the written thesis research proposal has been passed by the Supervisory Committee.

Questions on the research proposal may be included in the FOS oral candidacy examination. Details of the Department of Geoscience's Doctoral Candidacy Requirements can be found at <https://science.ucalgary.ca/earth/current-students/graduate/procedures-policies-and-forms>.

### Thesis Examination

Master of Science thesis-based and doctoral students have final thesis oral examinations that are open to the public, with a public presentation on the same day.

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

## Type

Completion Requirement

## Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must have complete applications submitted to the Department by January 15.

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-course-based](http://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-course-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- b) All research areas require proficiency in reading Latin and/or Greek.
- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) **GRST603 Res & Professional Training**, first-year course on research and professional training.
- b) 24 units of other seminar courses; these may include up to 6 units outside the department if relevant to the student's particular interests in the field.
- c) 6 units (four courses) of directed studies in Greek and Latin texts ([GREK607 Directed Studies](#) or [LATI607 Directed Studies](#)), normally taken in Fall and Winter Terms of the first and second year (worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.
- d) Reading knowledge of French or German or Italian.

The department may require up to two additional courses (6 units) in order to ensure sufficient preparation in relevant areas for the MA. Students are advised of any such requirements upon entry into the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Contact department for information.

## Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Not more than four courses (12 units) in the course-based program, may be taken at the 500 level.

## Time Limit

Students studying on a full-time basis are expected to complete the Master's program in two years. Students in course-based master's programs must complete their degrees within six years.

## Overview

### General Program Information

The MA degree may be completed on a full-time or a part-time basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- All research areas require proficiency in reading Latin and/or Greek.

- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) **GRST603 Res & Professional Training**, first-year course on research and professional training.
- b) 12 units of other seminar courses, normally taken in the first year of the program; these may include up to 6 units outside the department if appropriate to the area of specialization.
- c) 6 units (four courses) of directed studies in Greek and Latin texts (**GREK607 Directed Studies** or **LATI607 Directed Studies**), normally taken in Fall and Winter Terms of the first and second year (worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.
- d) Reading knowledge of French or German or Italian into English.
- e) A thesis of approximately 20,000 words, with oral examination.

The department may require up to two additional courses (6 units) in order to ensure sufficient preparation in relevant areas for the MA. Students are advised of any such requirements upon entry into the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Contact department for information.

### Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Not more than two of the courses (6 units) required in the thesis-based MA program may be taken at the 500 level.

### Time Limit

Students studying on a full-time basis are expected to complete the Master's program in two years. Students in thesis-based master's programs must complete their degrees within four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director is normally the interim supervisor for a master's student entering the program, and will assist the student to find a supervisor within eight months of entering the program. The appointment of a supervisor is subject to approval by the Department Head.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. The department can offer advice on identifying sources.

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for submission of complete application is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/greek-roman-studies-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- Normally at least 66 units of relevant undergraduate course work are expected for admission to the MA program, with some concentration in the proposed research area.
- All research areas require proficiency in reading Latin and/or Greek.

- c) Competence in reading French, German or Italian must be acquired either before or during the program.
- d) For the PhD, an MA is required.
- e) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) [GRST603 Res & Professional Training](#), first-year course on research and professional training unless already taken at the Master's level.
- b) A minimum of 12 units of other graduate seminar courses; these may include up to 6 units outside the department if appropriate to the area of specialization.
- c) 6 units (four courses) of directed studies in Greek and Latin texts ([GREK607 Directed Studies](#) or [LATI607 Directed Studies](#), worth 1.5 units each). Greek 607 or Latin 607 may be replaced with Greek or Latin 602 and/or 604.
- d) Reading knowledge of two of the three following modern languages into English, French, German or Italian, which is normally completed by passing examinations set by the department.
- e) A twenty-page thesis proposal.
- f) A thesis of about 75,000 words, followed by an oral examination.

The department may require up to four additional courses (12 units) in order to ensure sufficient preparation in relevant areas for the PhD. Students are advised of any such requirements upon entry into the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Contact department for information.

### Flexible Grade Option (CG Grade)

The Greek and Roman Studies program in the department Of Classics and Religion will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Greek and Roman Studies Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

For the PhD program, students are expected to complete their degrees within six years.

### Supervisory Assignments and Required Examinations

## Type

Completion Requirement

## Additional Comments:

### Supervisory Assignments

Doctoral students are expected to have a supervisor upon entry. The appointment of a supervisor is subject to approval by the Department Head.

## Candidacy

To be admitted to candidacy, doctoral students must successfully complete a written and oral field of study examinations and an oral examination on the written thesis proposal. See [clare.ucalgary.ca/graduate/phd-candidacy-policies](http://clare.ucalgary.ca/graduate/phd-candidacy-policies) for more information.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

## Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. The department can offer advice on identifying sources.

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

#### Laddered Pathway from the Graduate Certificate in Geospatial Information Technology to the Master of Geographic Information Systems

Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the [MGIS - Geo](#) within five years of beginning the certificate.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

## Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/geospatial-information-technology-certificate](https://grad.ucalgary.ca/future-students/explore-programs/geospatial-information-technology-certificate).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- A statement of interest outlining the applicant's goals, motivation for applying to the program, and research area of interest.
- A current curriculum vitae or résumé.
- Two reference letters.

For the academic background requirements for the MGIS program or the Graduate Certificate in Geospatial Information Technology, the Department will accept a four-year BA or BSc degree in Geography or in any related field that makes use of spatial data. Examples include, but are not limited to: Anthropology, Archaeology, Biological Sciences, Computer Science, Ecology, Environmental Science, Geology/Geophysics, Geomatics Engineering, History, Management, Mathematics, Political Science, Psychology, Tourism, Transportation Studies or Engineering, and Urban Studies.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

**Complete ALL of the following Courses:**

- GEOG680 - Principles of Digital Cartography and Geovisualization  
**AND** GEOG682 - Fundamentals of Geographic Information Science  
**AND** GEOG684 - Fundamentals of Remote Sensing  
**AND** GEOG686 - Applied Statistics and Geospatial Analysis

#### Additional Comments:

For course-based students, departures from regular departmental program/course requirements may be recommended on an individual basis with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No credit will be given for undergraduate courses towards the Graduate Certificate in Geospatial Information Technology.

## Time Limit

The expected completion time is four months to a maximum completion time of two years.

## Supervisory Assignments

The program will be appointed a faculty member who will act as an academic advisor.

## Overview

### General Program Information

The one-year, course-based MA program includes significant independent research and is SSHRC-eligible. It is appropriate for students who intend to proceed to doctoral studies.

This is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Students in the course-based program are expected to enrol full-time but part-time status may be considered with approval from the Graduate Program Director.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-ma-course>

In addition to the **requirements** of the Faculties of Graduate Studies and Arts, the Department requires:

- a) Normally, a four-year undergraduate program with honours or a major in History.
- b) A minimum admission grade point average of 3.40 on a four-point scale over the final 60 units of the undergraduate degree.
- c) A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).
- d) A statement of research interest.
- e) Two reference letters.
- f) A curriculum vitae.
- g) The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.

See [website](#) for further application details.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) A minimum of 24 units of coursework:

- [HTST651 Research Essay I](#) as preparation for the Major Research Essay (MRE)
- [HTST653 Research Essay II](#), in which the MRE, normally around 9,000 words in length (including notes, charts, tables and appendices, but excluding bibliography), is written. The MRE must be written like a scholarly research article, and it will be marked by the student's advisor and one additional faculty member.
- [HTST690 Historiography&TheoriesOfHist](#)
- 15 units of History graduate courses over two semesters; in instances where there are no graduate courses being offered in the student's field of study, students may, with permission of the supervisor and graduate program director, take one 500-level undergraduate History course on the understanding that extra coursework will be required.

b) Normally, a demonstration of reading proficiency in a language other than English and related to the student's research interests before the MRE can be accepted. Please refer to the subsection below for further details.

#### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

#### Copyediting

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Department of History will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.  
The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Refer to Program/Course Requirements.

## Time Limit

Expected completion time for full-time students is 12 months, and maximum completion time is four years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department [website](#).

## Overview

### General Program Information

All thesis-based students are considered full-time.

### Specializations:

- History and Philosophy of Science (MA, thesis-based only)\*

\*This specialization is offered in co-operation with the Department of Philosophy.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-ma-thesis>

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

- a) Normally, a four-year undergraduate program with honours or a major in History.
- b) A minimum admission grade point average of 3.40 on a four-point scale over the final 60 units of the undergraduate degree.
- c) A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).
- d) A statement of research interest.
- e) Two reference letters.

f) A curriculum vitae.

g) The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.

See [website](#) for further application details.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) A minimum of 15 units of coursework:

- [HTST690 Historiography&TheoriesOfHist](#) (3 units); plus
- 12 units of History graduate courses over two terms; in instances where there are no graduate courses being offered in the student's field of study, students may, with approval of the supervisor and graduate program director, take one 500-level undergraduate History course on the understanding that extra coursework will be required.

Students may choose 3 units outside of the Department (requiring approval from the supervisor and graduate program director).

Students in the History and Philosophy of Science specialization may, with approval of the supervisor and graduate program director, take Philosophy courses to fulfill course requirements for the degree.

b) Normally, a demonstration of reading proficiency in a language other than English and related to the major field of study prior to the oral thesis defence. Please refer to the subsection below for further details.

c) Completion and successful oral defense of an original thesis, normally around 30,000 words in length (including notes, charts, tables and appendices, but excluding bibliography).

#### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

#### Copyediting

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Department of History will allow students to pursue the Flexible Grade Option (CG Grade) for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Students enrolled in the Master of Arts thesis program may apply for no more than one 500-level course for graduate credit, subject to the approval of the Supervisor and Graduate Program Director. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

## Time Limit

Expected completion time is two years, and maximum completion time is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

Admission to the Master of Arts (thesis-based) is dependent upon the agreement of a faculty member to supervise in an interim capacity. Upon acceptance into the program, students are assigned an interim supervisor who will normally become the permanent supervisor three months into the student's program. Supervisors must be assigned within 6 months of the first registration.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department [website](#).

## Overview

### General Program Information

All thesis-based students are considered full-time.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-phd>

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

- a) Normally, a completed four-year undergraduate program with honours or a major in History and a completed Master of Arts degree or the equivalent in History or in a related discipline.
- b) A grade point average of 3.70 on a four-point scale in History at the graduate level.
- c) A detailed statement of research interest.
- d) A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).
- e) Two reference letters.
- f) A curriculum vitae.
- g) The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.

See [website](#) for further application details.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) A minimum of 12 units of coursework at the graduate level, including courses in the primary and secondary areas. These courses include:

- 3 units in the primary area as a [HTST791 Conf Course Special Top \(Adv\)](#) reading course;

- 3 units in the secondary area as a **HTST791 Conf Course Special Top (Adv)** reading course;
- 6 additional units including **HTST690 Historiography&TheoriesOfHist** (3 units), if not completed in a student's MA program. Among these, the student may also choose 3 units outside the Department (requiring the supervisor's and graduate program director's approval).

b) Normally, a demonstration of reading proficiency in a language other than English and relevant to the student's research prior to the candidacy examination. Please refer to the subsection below for further details.

c) Written and oral candidacy examinations in primary and secondary areas.

d) Submission and successful defense of an original thesis, normally 80,000 - 100,000 words in length (including notes, charts, tables and appendices, but excluding bibliography).

#### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

#### Copyediting

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### Flexible Grade Option (CG Grade)

The Department of History will allow students to pursue the **Flexible Grade Option (CG Grade)** for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### Time Limit

Expected completion time is four years, and maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

**Additional Comments:**

## **Supervisory Assignments**

Admission to the PhD is dependent upon the agreement of a faculty member to supervise in an interim capacity. Upon acceptance into the program, students are assigned an interim supervisor who will normally become the permanent supervisor three months into the student's program. Supervisors must be assigned within 6 months of the first registration.

The supervisor establishes a doctoral supervisory committee in consultation with the student. The Supervisory Committee consists of the primary area supervisor and a secondary area specialist with the third member being a faculty member, normally outside the department, whose area of expertise is in the field of study for the student. The supervisory committee must be selected within three months of the permanent supervisor's appointment (no later than March of the first year of a program).

## **Required Examinations**

In addition to the Faculty of Graduate Studies requirements for **Candidacy** and **Thesis Examinations**, the Department requires:

### **Candidacy**

Doctoral students must pass oral and written candidacy examinations in their primary and secondary areas. For complete details of candidacy requirements and the examination format, see <https://arts.ucalgary.ca/history/future-students/graduate/phd-candidacy-requirements>.

### **Thesis Examinations**

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department [website](#).

## **Overview**

### **General Program Information**

**Graduate Certificates in Social Work** serve as stand-alone credentials for practicing social workers who seek formal professional development opportunities in their field or provide practicing social workers a flexible option to pursue the MSW degree.

Students may complete a given certificate only once. Repeating the same certificate is not permitted. Not all Graduate Certificates and specializations are offered every year. For availability, consult the Faculty of Social Work [website](#).

### **Program Delivery**

## UCalgary

The certificates are completed full-time and courses are offered by distance (online) learning. Most require virtual and/or in-person residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Note: International students admitted to a Graduate Certificate with a mandatory in-person campus residency must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program.

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### Specializations (ICD):

- International Social Development
- Community Development

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### Laddered Pathway from Graduate Certificates to MSW

Students who complete the Graduate Certificate in International and Community Development (ICD) and one of: **GCERT Adva**, **GCERT Clin** or **Social Wor** may apply to the Master of Social Work (course-based) program. See **LADMSWCB**.

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-cert>.

Students who wish to complete two successive certificates through a laddered pathway into the MSW (course-based) degree must apply to each certificate and the MSW (a total of three applications) and will receive each credential upon its successful completion.

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In addition to the Faculty of Graduate Studies' **admission** requirements, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized\* institution. The degree must be awarded prior to the start of the Graduate Certificate.

*\*The Faculty of Social Work recognizes BSW and BSW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council of Social Work Education (CSWE), and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) For applicants required to present proof of proficiency in English: a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

**Note:** Once admitted, students are not permitted to switch specializations within the chosen certificate. Requests to defer an offer of admission are not normally considered.

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Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

The Graduate Certificate consists of 12 units of coursework. Course requirements are determined by the specialization.

**Complete ANY of the following Course Sets:**

- Social Work, ICD Specialization, International Social Development  
**OR** Social Work, ICD Specialization, Community Development

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced credit is not awarded toward a graduate certificate.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work will allow students in the Graduate Certificates in Social Work to pursue the [Flexible Grade Option \(CG Grade\)](#) for graduate courses offered by the Faculty. Students may receive a grade of CG only once, for a total of 3 units, regardless of the number of graduate certificates they complete. In addition, students may receive a grade of CG only once throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### Time Limit

The expected completion time is eight months for any of the graduate certificates. Maximum completion time is two years.

Students taking graduate certificates as part of the ladder pathway to the MSW (course-based) degree program must apply to ladder into the MSW within five years from the start of their first graduate certificate in the laddering sequence.

#### Financial Assistance

##### Type

Completion Requirement

## Additional Comments:

Students enrolled in a Graduate Certificate in Social Work are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The course-based program is appropriate for students who intend to provide direct service in the field. This full-time program is available for both BSW graduates and graduates from other disciplines.

### Specializations:

- International and Community Development (ICD)
- [MSWC Clini](#)
- [Social Wor](#)

## Program Delivery

The MSW course-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

The course-based MSW is a continuous, full-time program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are an approved leave of absence.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social->

## work-msw-course.

In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

f) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide rationale in the application.

For those applying to the MSW through the MSW Laddering Pathway (upon completion of two specific Graduate Certificates), the academic reference must come from an instructor who taught the applicant in one of the Graduate Certificates.

MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in Student Orientation sessions held prior to the start of the program is mandatory for students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work.**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

Foundation courses must be completed before students advance to Specialization specific courses and Advanced Practicum (Social Work 660 and 662).

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a BSW or completed foundation courses:**

A total of 36 units of coursework, as follows:

- a) 12 units of Advanced Social Work Practice courses;
- b) 12 units of Specialization courses (topics may vary from year to year and by location);
  - Within the ICD specialization, there are two topic areas. Each consists of 12 units (four courses) which address a particular subject within the broader field of International and Community Development. Students must complete 12 units in the selected topic area.
- c) 12 units of Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE).
  - Students must be available to complete 500 hours of practicum. This represents a significant time commitment. Students must ensure that they are aware of field requirements, and available for field placements as scheduled, in order to complete their practicum within the appropriate term.
  - Practicum hours are typically completed in-person, during regular business hours and close to the student's home community anywhere in Canada. International practicums may be an option for interested MSW students only in the International and Community Development specialization in their Advanced Practicum. This will be dependent on the location, scope of practice, timeframe, and supervision availability.
  - A student who fails or withdraws from a practicum course (Social Work 660 or 662) will fail or be required to withdraw from the co-requisite courses (Social Work 660 or 662). In addition, the student may be required to withdraw from the program.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, ICD Specialization, International Social Development  
OR Social Work, ICD Specialization, Community Development
- MSW, Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE)

The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed.

Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of Specialization topics: <https://socialwork.ucalgary.ca/>.

**Additional Comments:**

**Transfer to a Thesis-Based MSW**

Note: Students who wish to transfer to the thesis-based MSW must submit their transfer request to Student Services by January 31 prior to the thesis research courses and/or advanced practicum. Students who transfer must comply with the requirements of the respective program. The program transfer must be approved by both the Faculty of Social Work and Faculty of Graduate Studies.

\*Course-based MSW students with a non-BSW degree who receive credit by special assessment (CSA) for the Foundational Field Practicum (Social Work 633) are not eligible to transfer to the thesis-based MSW.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

Advanced Credit is not normally granted for the Master of Social Work degree.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Master of Social Work course-based program will allow students to pursue the **Flexible Grade Option (CG Grade)** in one graduate course offered by the faculty, with the exception of **SOWK633 Foundational Field Practicum**, **SOWK660 Advanced Practicum** and **SOWK662 Integrative Seminar**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

### Time Limits

Expected completion time is two years for BSW graduates and three years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see Time Limits) maximum completion time is six years for a course-based MSW.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see **Awards and Financial Assistance** for Graduate Students, the Graduate Awards **Database**, and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The thesis-based route may be appropriate for students who intend to proceed to doctoral studies and/or anticipate a career requiring advanced program evaluation or research skills. This full-time program is available for both BSW graduates and graduates from other disciplines.

### Specializations:

- International and Community Development (ICD)
- **MSWT Cline**

- Social Wor

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## Program Delivery

The MSW thesis-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/social-work-master-social-work-thesis-based>.

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In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized/accredited post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) A thesis proposal providing a rationale for selecting the thesis route and a preliminary research proposal describing the research problem to be investigated and the proposed research methodologies (e.g., quantitative, qualitative, mixed methods, participatory action research, arts-based, etc.), and the study's potential contribution to social work research and practice. Students applying to the thesis route are strongly encouraged to discuss this option with the PhD/MSW Thesis Program Coordinator.

f) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no

section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and B+ in other courses.

g) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide a rationale in the application.

**Note:** MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in student orientation sessions held prior to the start of the program is mandatory for incoming students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work:**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

\*Foundation students in the thesis-based MSW are not eligible for credit by special assessment.

Foundation courses must be completed before students advance to specialization-specific courses and the two research courses (Social Work 670 and 672).

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

**For Students with a BSW or completed foundation courses:**

A total of 30 units of coursework. The coursework consists of:

a) 12 units of Advanced Social Work Practice courses;

b) 12 units of specialization courses (topics may vary from year to year and by location);

- Within the ICD specialization, there are two topic areas. Each consists of 12 units (four courses) which address a particular subject within the broader field of International and Community Development. Students must complete all four courses in the selected topic area.

c) 6 units of research courses.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, ICD Specialization, International Social Development  
**OR** Social Work, ICD Specialization, Community Development
- Social Work, MSW, Research Courses

**Note:** The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed. Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of specialization topics: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca).

All four ASWP courses and all four specialization courses are prerequisites to Social Work 670 and 672 (research courses).

#### **Additional Comments:**

Students may elect to complete [SOWK660 Advanced Practicum](#) Advanced Practicum, but it is not a mandatory component of the thesis-based degree. Students who wish to complete Social Work 660 must have completed all the ASWP, specialization and research courses and must declare their intention to pursue a Practicum in writing to the Director of Field Education by March 1st of their final year of coursework (6-8 months prior to the expected start of the Practicum). The Integrative Seminar (Social Work 662) is for course-based MSW students only.

#### **Transfer to a Course-based MSW**

Normally students who begin the MSW thesis program and then want to switch to the course-based MSW may be able to do so prior to beginning the thesis research courses and at least 8 months prior to the start of Advanced Practicum.

#### **Additional Program Information**

##### **Type**

Completion Requirement

#### **Additional Comments:**

### **Advanced Credit**

[Advanced Credit](#) is not normally granted for the Master of Social Work degree.

### **Flexible Grade Option (CG Grade)**

The Faculty of Social Work Master of Social Work thesis-based program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) in graduate courses offered by the faculty, with the exception of [SOWK633 Foundational Field Practicum](#), [SOWK660 Advanced Practicum](#), [SOWK670 Adv Method Epistemology SOWK](#) and [SOWK672 Thesis Research Development](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### **Concurrent Program Enrolment**

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

### **Withdrawal**

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### **Credit for Undergraduate Courses**

Credit for undergraduate courses will not be awarded.

### **Time Limit**

Expected completion time is three years for BSW graduates and four years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see [Time Limits](#)), maximum completion time is four years for a thesis-based MSW (for both BSW degree holders and non-BSW degree holders).

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

For incoming MSW thesis students, the PhD/MSW Thesis Coordinator will act as the interim supervisor. Before the end of April of the first year, each student must designate a faculty member as permanent supervisor. MSW thesis students will work with their supervisors to determine if a co-supervisor and/or supervisory thesis committee is preferred. This decision should be made prior to start of Social Work 670. The arrangement must be approved by the Graduate Program Director.

Within the first two months of working together, MSW thesis students and their interim and/or permanent supervisors are required to complete and submit to Student Services in the Faculty of Social Work the signed Student-Supervisor checklist and the Intellectual Property checklist. These become part of the student's permanent record. If a change occurs in supervision, a new Student-Supervisor checklist must be completed, signed and submitted to Student Services within two months of the change.

## Research Proposal Requirements

Students must have proposal approved by their supervisor and/or committee (if appropriate). A copy of the proposal becomes part of the student's record with the Faculty of Social Work. Once the proposal has been approved, students can proceed with applying for ethics certification.

## Required Examinations

### MSW Thesis Examination

The final examination for the thesis-based MSW involves an oral defence of the thesis. The thesis examination is conducted by the student's examining committee, which must be declared at least one month before the oral examination.

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following MSW examining committee composition:

- thesis supervisor, and, if applicable, co-supervisor/supervisory thesis committee,
- a faculty member from the Faculty of Social Work, and
- an Internal Examiner (external to the Faculty of Social Work).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

# UCalgary

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate application for admission to the other program. The respective Combined Program Committee will review each application.

Please note that receiving admission to both individual programs does not guarantee admission to the combined program.

For MBA admission requirements, see **Master of**.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

A student admitted to the combined JD/MBA program spends the first year doing core studies in one program and the second year doing core studies in the other program. The remaining years in the program combine Law and Business courses in a way that will allow the achievement of both degrees in four rather than five years. Course requirements include:

a) MBA courses (45 units):

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses

plus:

- one elective course (3 units) in the student's area of interest.

b) Law courses (83 units):

**Complete ALL of the following Requirement Sets:**

- JD/MBA Law Courses

plus:

- a minimum of eight 3-unit electives.

#### Additional Comments:

Attendance at an orientation session is mandatory for all incoming students in all MBA program options.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to a combined MBA program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

MBA: six years

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

The JD/MPP program is normally restricted to full-time study. It allows students to obtain both degrees in a significantly shorter time frame than if they are taken separately.

Email address: <mailto:mpp@ucalgary.ca>

Web page URL: <https://spp.ucalgary.ca> and <https://law.ucalgary.ca/future-students/our-jd-programs/joint-jd-programs#jd-mpp>

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications: <http://www.ucalgary.ca/future-students/graduate/explore-programs/public-policy-master-public-policy-course-based>.

Students must meet the [admission](#) requirements for the Faculty of Graduate Studies and those for the JD and MPP programs. Please consult the JD Student Services Coordinator or the MPP Office for more information.

A separate application for the MPP and for the JD is required for the combined JD/MPP program. See [deadlines for each program](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the School of Public Policy requires that all students complete the following:

33 units consisting of:

a) Ten core courses:

**Complete ALL of the following Course Sets:**

- Core MPP Courses

b) A total of six units of electives. This can include [PPOL699 Topics in Public Policy](#) or other graduate-level coursework approved by the Graduate Program Director. The two elective courses should be related in such a way that they form a focus in an area of public policy.

#### Additional Comments:

### Combined JD/MPP

One three-unit [JD course](#) will be counted toward the MPP core requirements set out in (a) and one three-unit [JD course](#) will be counted toward the elective requirement set out in (b). All other requirements set out in (a)–(b) apply to students in the joint program.

Students will normally complete all of the first-year compulsory courses in Law in the first year of their program and all MPP courses including [PPOL620 Capstone Preparation](#) and [PPOL623 Capstone Project](#) (capstone) in year two. In their third year, they complete their [JD courses](#). Please consult the MPP or the JD Office for more information.

### Copyediting

The School of Public Policy does not allow copyediting on students' work.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma. If graduate-level courses are taken as post-BA courses and not used as credit towards another degree, the School may allow the student to claim up to 6 units at our graduate level towards the MPP requirements should the student be admitted into the MPP program.

### Flexible Grade Option (CG Grade)

Students admitted to the Master of Public Policy program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will affect students' ability for internal awards.

## Credit for Undergraduate Courses

No credit will be given for courses taken below the 600-level, except in special cases.

## Time Limit

Maximum completion time for the MPP is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All MPP students in the program will be guided by faculty holding appointments to the School.

## Required Examinations

No additional examinations outside of the courses are required.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students admitted to the MPP program will automatically be considered for financial awards from the School. For information on awards, see the [website](#) for the School and the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specialization:

- Applied Exercise Physiology

The Master of Kinesiology (MKin) is a course-based program specializing in Applied Exercise Physiology. This program is designed for continuous full-time enrolment and does not have a scheduled break.

Location: Kinesiology B, Room 139B

Program number: 403.220.5183

Email address: <mailto:knesgrad@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://www.ucalgary.ca/future-students/graduate/explore-programs/kinesiology-master-kinesiology-course-based>.

In addition to Faculty of Graduate Studies [admission](#) requirements, the Faculty of Kinesiology requires:

The following are the minimum requirements for applying to the program. Please note, normally applicants with higher GPAs are selected for admission to the program.

- a) A minimum grade of "B" or 3.00 in each of the following undergraduate prerequisite courses or equivalents: Anatomy, Exercise Physiology, Biomechanics, Exercise/Sport Psychology and Statistics.
- b) A minimum admission GPA of 3.00 or higher on a four-point scale over the last 60 units and/or two years of study in Kinesiology or an appropriate academic background for the area of specialization.
- c) A demonstrated ability to be self-motivated and capable of independent study as shown in undergraduate studies, volunteer work and/or work experience in exercise science areas will be considered.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Kinesiology requires:

- a) a total of 33 units at the graduate level:

**Complete ALL of the following Course Sets:**

- Master of Kinesiology, Course-based

Students may elect to complete **KNES698 Practicum IV** to extend their practicum experiences.

- b) A final applied project is considered the capstone event. This will be undertaken in conjunction with Kinesiology 618, 620 and 621.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced credit will be limited to 12 units with a grade of "B" or higher for students admitted to the Master of Kinesiology program. The student must request [advanced credit](#) in writing at the time of application for admission to the Faculty of Kinesiology.

### Flexible Grade Option (CG Grade)

The Faculty of Kinesiology will allow students in the Master of Kinesiology program to pursue the Flexible Grade Option (CG Grade) with the exception of Kinesiology 609, 610, and 611.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate credit may be granted for courses offered at the 500 level at the discretion of the Associate Dean (Graduate).

### Time Limit

Expected completion time is 16 months commencing in September. Maximum completion time is six years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

MKin students may apply for Graduate Assistantship (Teaching) positions.

## Overview

### General Program Information

#### Specializations:

- Biomechanics
- Exercise and Health Physiology
- Health, Exercise and Sport Psychology
- Innovation in Pedagogy and Sport Performance
- Neuro-Motor Psychology and Motor Learning
- Nutrition, Metabolism and Genetics
- Rehabilitation
- Sociocultural Aspects of Sport and Physical Activity
- Sport Medicine
- Wearable T

Location: Kinesiology B, Room 139B

Program number: 403.220.5183

Email address: <mailto:knesgrad@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/kinesiology-master-science-thesis-based>.

In addition to Faculty of Graduate Studies admission requirements, the Faculty of Kinesiology requires the following:

- a) Consent for supervision from an approved Faculty Member in Kinesiology.
- b) An appropriate academic background for the area of specialization.
- c) A minimum GPA of 3.00 or higher on a four-point scale over the last 60 units and/or last two years of study.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

#### Type

#### Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Kinesiology requires:

- a) One graduate-level course (3 units) in analysis, such as [KNES609 Stat Techniques in KNES](#) or [KNES610 Qualitative Research Analysis](#).
- b) One graduate-level course (3 units) in research design, such as [KNES611 Res Methods in Knesiology](#).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Flexible Grade Option (CG Grade)

The Faculty of Kinesiology will not permit the [Flexible Grade Option \(CG Grade\)](#) for students enrolled in the Master of Science and Doctor of Philosophy degrees.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate credit may be granted for courses offered at the 500 level at the discretion of the Associate Dean (Graduate).

### Time Limit

Expected completion time is two years. Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Supervisor(s) must be identified at the time of admission for thesis-based programs. Within six months of admission, the student and supervisor(s) must select a supervisory committee according to the Faculty of Graduate Studies' procedures. The composition of the supervisory committee must be approved by the Associate Dean (Graduate).

### Research Proposal Requirements

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Health Research Ethics Board before beginning data collection. Research with animals must receive approval from a University Animal Care Committee.

All Master of Science students must present a research proposal to their supervisory committee prior to commencing data collection. The proposal must include the objectives and methodology of the proposed research program as well as the expected contributions to the field. The supervisory committee must approve the thesis proposal before it is submitted to the Faculty of Kinesiology, Associate Dean (Graduate).

### Required Examinations

In addition to the Faculty of Graduate Studies requirements, the Faculty of Kinesiology requires:

### Thesis Examinations

Thesis Oral Examinations are administered according to the Faculty of Graduate Studies' procedures and are open examinations.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Prior to a doctoral or a Master's thesis oral examination being scheduled, the following program requirements must be met:

The student must provide a relevant written sample of their research which is comprised of the following:

- a) Table of Contents from the thesis;
- b) Thesis chapter or manuscript (prepared, submitted, accepted) for publication. In cases where a thesis chapter may consist of a literature review, it must be from the thesis and not the research proposal.

The supervisor must schedule a supervisory committee meeting where the student will present their results to the supervisory committee. The meeting may take place in person, via tele- or videoconference, or as a discussion via email. The supervisor and supervisory committee members must unanimously:

- a) agree the student has conducted sufficient work on their research project;
- b) approve the relevant written sample of research;
- c) approve the student to write their thesis and schedule a Thesis Oral Examination.

A final copy of supervisory committee meeting minutes (or relevant emails) must be submitted to the Graduate Program Office confirming that the above requirements have been met. Thesis examinations will not be approved by the Associate Dean (Graduate) until these are received.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Kinesiology funding policy and can be found at <https://kinesiology.ucalgary.ca/future-students/graduates/fees-funding>.

Thesis students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards). For information on other awards, please contact the Faculty of Kinesiology Graduate Program.

## **Overview**

### **General Program Information**

#### **Specializations:**

- Biomechanics
- Exercise and Health Physiology
- Health, Exercise and Sport Psychology
- Innovation in Pedagogy and Sport Performance
- Neuro-Motor Psychology and Motor Learning
- Nutrition, Metabolism and Genetics
- Rehabilitation
- Sociocultural Aspects of Sport and Physical Activity
- Sport Medicine

- Wearable T

Location: Kinesiology B, Room 139B

Program number: 403.220.5183

Email address: <mailto:knesgrad@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://www.ucalgary.ca/future-students/graduate/explore-programs/kinesiology-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies **admission** requirements, the Faculty of Kinesiology requires the following:

- Consent for supervision from an approved Faculty Member in Kinesiology.
- An appropriate academic background for the area of specialization.
- A minimum grade point average (GPA) of 3.00 or higher on a four-point scale over the last 60 units and/or last two years of study.
- Two reference letters.
- Written confirmation of external funding in accordance with policies of the Faculty of Kinesiology Graduate Program.
- A student may request a transfer from the Master of Science degree program to the doctoral degree program, upon the recommendation of the supervisory committee and subsequent approval of the Associate Dean (Graduate) and Dean, Faculty of Graduate Studies.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Kinesiology requires:

A minimum of 9 units at the graduate level selected according to the student's background research focus and approved by the graduate supervisor and supervisory committee.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Flexible Grade Option (CG Grade)

The Faculty of Kinesiology will not permit the **Flexible Grade Option (CG Grade)** for students enrolled in the Master of Science and Doctor of Philosophy degrees.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate credit may be granted for courses offered at the 500 level at the discretion of the Associate Dean (Graduate).

## Time Limit

Expected completion time is four years. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Supervisor(s) must be identified at the time of admission for thesis-based programs. Within six months of admission, the student and supervisor(s) must select a supervisory committee according to the Faculty of Graduate Studies' procedures. The composition of the supervisory committee must be approved by the Associate Dean (Graduate).

## Research Proposal Requirements

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Health Research Ethics Board before beginning data collection. Research with animals must receive approval from a University Animal Care Committee.

Doctoral students are required to prepare a written thesis proposal and obtain approval from the supervisory committee. For complete details of the proposal requirements, see [KNES Candidacy Requirements](#).

## Required Examinations

In addition to the Faculty of Graduate Studies requirements, the Faculty of Kinesiology requires:

## Doctoral Candidacy

Doctoral students must pass oral and written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see [KNES Candidacy Requirements document](#).

## Thesis Examinations

Thesis Oral Examinations are administered according to the Faculty of Graduate Studies' procedures and are open examinations.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Prior to a doctoral or a Master's thesis oral examination being scheduled, the following program requirements must be met:

The student must provide a relevant written sample of their research which is comprised of the following:

- a) Table of Contents from the thesis;
- b) Thesis chapter or manuscript (prepared, submitted, accepted) for publication. In cases where a thesis chapter may consist of a literature review, it must be from the thesis and not the research proposal.

The supervisor must schedule a supervisory committee meeting where the student will present their results to the supervisory committee. The meeting may take place in person, via tele- or videoconference, or as a discussion via email. The supervisor and supervisory committee members must unanimously:

- a) agree the student has conducted sufficient work on their research project;
- b) approve the relevant written sample of research;

c) approve the student to write their thesis and schedule a Thesis Oral Examination.

A final copy of supervisory committee meeting minutes (or relevant emails) must be submitted to the Graduate Program Office confirming that the above requirements have been met. Thesis examinations will not be approved by the Associate Dean (Graduate) until these are received.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Kinesiology funding policy and can be found at <https://kinesiology.ucalgary.ca/future-students/graduates/fees-funding>.

Thesis students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards). For information on other awards, please contact the Faculty of Kinesiology Graduate Program.

## Overview

### General Program Information

The MSW Laddered Pathway is designed for BSW graduates.

Students entering the course-based MSW through the laddered pathway must apply to and complete the [GCERT Adva](#) (12 units) and apply to and complete one of the certificates: [GCERT Clin](#), [GCERT Inte](#), or [Social Wor](#) (12 units) in any order. Admission to the MSW program is not guaranteed. Upon acceptance to the MSW, students complete the final component (12 units) of this full-time degree.

The course-based MSW is a continuous full-time program with no scheduled break. Students who do not enroll in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

### Program Delivery

The final courses are offered by distance (online) learning with required virtual and/or in-person campus residencies in Calgary. Failure to attend residencies may result in a student being withdrawn from the course(s) or program. Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit and a valid work permit for their practica in Canada. The valid study permit must be presented to Student Services prior to the program start and the valid work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-msw-course>.

In addition to the [admission](#) requirements of the Faculty of Graduate Studies, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized institution\* with a minimum grade point average of 3.00 on a four-point scale.

*\*The Faculty of Social Work recognizes BSW and BSW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) Completion of two graduate certificates: Certificate in Advanced Social Work Practice and one of the certificates in Clinical Social Work Practice, International and Community Development or Leadership in the Human Services, offered through the Faculty of Social Work.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) Two references, one academic and one professional. The academic reference must come from an instructor who taught the applicant in one of the Graduate Certificates.

Note: Students must apply to the course-based MSW degree within five years from the beginning of their first graduate certificate in Social Work. Requests to defer an offer of admission are not normally considered.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

Students entering the MSW through the ladder pathway are admitted to the Fall term and complete 12 units over the Fall and Winter terms:

##### Complete ALL of the following Course Sets:

- MSW, Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE)

A student who fails or withdraws from a practicum course (Social Work 660 or 662) will fail or be required to withdraw from the co-requisite courses (Social Work 660 or 662). In addition, the student may be required to withdraw from the program.

For Social Work 660, students are required to complete a 500-hour practicum. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community anywhere in Canada. International practicums may be an option for interested MSW students only in the International and Community Development specialization. This will be dependent on the location, scope of practice, timeframe, and supervision availability. Students may negotiate a part-time (20 hours per week minimum) or a full-time (40 hours per week maximum) practicum with the agency/supervisor and with approval of the Field Education Office.

At the same time, students will be required to complete Social Work 662 and attend all related online learning and in-person campus residencies in Calgary or Edmonton, and submit assignments in both Fall and Winter terms, regardless of their practicum schedule or timeline.

See [GCERT Adva](#), [GCERT Clin](#), [GCERT Inte](#), and [Social Wor](#) for more information.

#### Additional Comments:

#### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

### Advanced Credit

Students entering the MSW through the laddered pathway receive credit for 24 units completed in the two certificate programs.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Master of Social Work course-based program will allow students to pursue the **Flexible Grade Option (CG Grade)** in up to one graduate course offered by the faculty, with the exception of: **SOWK660 Advanced Practicum** and **SOWK662 Integrative Seminar**.

Students enrolled in the laddered pathway may only have a grade of CG for a total of 3 units throughout the entire laddered pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a laddered pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

### Time Limits

Expected completion time in the MSW Laddering Pathway is three years (all three stages). The maximum completion time for all laddered credentials is six years from the start of the first credential in the laddering process.

**Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see **Awards and Financial Assistance** for Graduate Students, the Graduate Awards **Database**, and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

Attaining an LLM degree without a Canadian LLB degree will not qualify graduates to practice law in Canada. Inquiries on this issue must be addressed to the appropriate provincial governing body for the legal profession. In Alberta, contact the Law Society of Alberta or the National Committee on Accreditation of the Federation of Law Societies of Canada.

# UCalgary

Master of Laws (LLM), course-based with major research project

## Specialization:

- Natural Resources, Energy and Environmental Law

LLM Students may elect not to have an area of specialization.

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The course-based LLM program is available for full-time or part-time enrolment.

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Location: Murray Fraser Hall

Program number: 403.210.8718

Fax: 403.210.9662

Email address: <mailto:law@ucalgary.ca>

Web page URL: <https://law.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/law-master-laws-course-based>.

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In addition to the **admission requirements** of the Faculty of Graduate Studies, the Faculty of Law requires:

- Ordinarily, a JD, LLB or equivalent degree in Law.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL Internet-based score of 97, with a minimum of 25 on the reading and writing components; or the minimum IELTS overall band score of 7.0, with a reading and writing band minimum of 7.0; or a CAEL score of 70, with a minimum of 70 on reading and writing components; or a PTE score of 68. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in the Academic Writing and Composition course, a minimum grade of "A-" in the Research Writing and Form course, and a minimum grade of "B+" in other courses.
- LLM program applicants must submit a brief statement of their proposed thesis or major paper, and applicants to the thesis-based program must also indicate their proposed supervisor. Details are available from the Faculty. For applicants interested in the specialization in Natural Resources, Energy, and Environmental Law, the proposal must be in this area.
- LLM program applicants must submit a writing sample.
- Two reference letters.
- An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Law requires:

- LAW703 Grad Sem Legal Res & Method**. Students must receive a passing grade in this course to advance in the program.
- 15 units of elective courses as follows:

### LLM with specialization in Natural Resources, Energy or Environmental Law:

15 units of elective courses at the 500 level or higher in the areas of natural resources, energy and environmental law or in graduate-level courses in a related area or discipline, approved by the Graduate Program Director.

- At least 6 units must be law courses at 600 level or higher.
- At least 6 units must be from law courses that include a research paper evaluation worth at least 50 percent of the course grade.
- 3 of these units may be [LAW705 Grad Seminar Legal Theory](#).

### LLM without a specialization:

15 units of elective law courses at the 500 level or higher, or in graduate-level courses in a related area or discipline, approved by the Graduate Program Director.

- No more than 3 units may be taken outside of the Faculty of Law; any course taken outside the Faculty of Law must be approved by the Graduate Program Director.
- At least 6 units must be law courses at 600 level or higher.
- At least 6 units must be from law courses that include a research paper evaluation worth at least 50 percent of the course grade.

c) [LAW707 Major Research Paper I](#) and [LAW708 Major Research Paper II](#): A major research paper, approximately 50 to 60 pages (15,000–18,000 words) in length, evaluated on a Pass/Fail basis by the instructor and a second reader appointed by the Graduate Program Director. Students enrolled in the specialization in Natural Resources, Energy and Environmental Law must complete their major papers in this area.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. On a case-by-case basis, advanced credit toward an LLM or PhD program may be given for courses completed in a graduate program within the Faculty of Law or another recognized institution. Courses for which advanced credit is being sought must not have been used for any previously completed degree/diploma/certificate credential.

### Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Certain JD courses are eligible for credit toward the LLM program.

### Time Limit

All requirements for the course-based LLM degree must be completed within five years of initial registration. It is expected that full-time students will complete the program in 16 months.

#### Financial Assistance

##### Type

Completion Requirement

## Additional Comments:

Financial assistance may be available to qualified students, although funding for course-based LLM and Graduate Certificate students will very rarely be provided. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar or the Faculty of Law Calendar or [website](#).

Students applying for scholarships must submit their scholarship applications to the Faculty of Law by the deadlines for completed admission applications.

## Overview

### General Program Information

Attaining an LLM degree without a Canadian LLB degree will not qualify graduates to practice law in Canada. Inquiries on this issue must be addressed to the appropriate provincial governing body for the legal profession. In Alberta, contact the Law Society of Alberta or the National Committee on Accreditation of the Federation of Law Societies of Canada.

### Specializations:

- Natural Resources, Energy and Environmental Law
- Energy and Environmental Systems (EESS-G-SPC - Missing program)

Location: Murray Fraser Hall

Program number: 403.210.8718

Fax: 403.210.9662

Email address: <mailto:law@ucalgary.ca>

Web page URL: <https://law.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/law-master-laws-thesis-based>.

In addition to the [admission](#) requirements of the Faculty of Graduate Studies, the Faculty of Law requires:

- Ordinarily, a JD, LLB or equivalent degree in Law.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL Internet-based score of 97, with a minimum of 25 on the reading and writing components; or the minimum IELTS overall band score of 7.0, with a reading and writing band minimum of 7.0; or a CAEL score of 70, with a minimum of 70 on reading and writing components; or a PTE score of 68. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in the Academic Writing and Composition course, a minimum grade of "A-" in the Research Writing and Form course, and a minimum grade of "B+" in other courses.
- LLM program applicants must submit a brief statement of their proposed thesis or major paper, and applicants to the thesis-based program must also indicate their proposed supervisor. Details are available from the Faculty. For applicants interested in the specialization in Natural Resources, Energy, and Environmental Law, the proposal must be in this area.
- LLM program applicants must submit a writing sample.
- Two reference letters.
- An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Law requires:

a) [LAW703 Grad Sem Legal Res & Method](#). Students must receive a passing grade in this course to advance in the program.

b) [LAW705 Grad Seminar Legal Theory](#).

c) At least two additional 600-level courses (6 units) approved by the Graduate Program Director. For students in the specialization in Natural Resources, Energy and Environmental Law, the courses should be in the areas of natural resources, energy or environmental law or in a related area or from a related discipline with the approval of the Graduate Program Director.

d) A substantial research thesis, approximately 100 to 125 pages (30,000-38,000 words) in length, exclusive of the bibliography, prepared under the supervision of a faculty member or other suitable person appointed by the Graduate Program Director. For students in the specialization in Natural resources, Energy and Environmental Law, the thesis must be on a topic in that subject area.

e) Two terms in residence, normally consecutive and normally from September to April. Students usually require at least 15 to 18 months from initial registration for thesis completion and defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. On a case-by-case basis, advanced credit toward an LLM or PhD program may be given for courses completed in a graduate program within the Faculty of Law or another recognized institution. Courses for which advanced credit is being sought must not have been used for any previously completed degree/diploma/certificate credential.

### Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Certain JD courses are eligible for credit toward the LLM program.

### Time Limit

All requirements for the thesis-based LLM degree must be completed within three calendar years of initial registration.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

## Supervisory Assignments

Contact the Faculty of Law Graduate Program Director for information.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

Thesis examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee (where applicable), must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students, although funding for course-based LLM students will very rarely be provided. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar or the Faculty of Law Calendar or [website](#).

Students applying for scholarships must submit their scholarship applications to the Faculty of Law by the deadlines for completed admission applications.

## Overview

### General Program Information

Location: Murray Fraser Hall

Program number: 403.210.8718

Fax: 403.210.9662

Email address: <mailto:law@ucalgary.ca>

Web page URL: <https://law.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/law-phd>.

In addition to the [admission](#) requirements of the Faculty of Graduate Studies, the Faculty of Law requires:

- Completion of an undergraduate degree in Law (e.g. JD or LLB), normally with a minimum grade point average of 3.30 on a 4.0-point scale.
- Completion of a Master's degree in Law or other appropriate and relevant Master's, with a minimum grade point average of 3.00. The typical successful applicant will have a GPA of at least 3.7 on a 4.0-point scale.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL Internet-based score of 97, with a minimum of 25 on the reading and writing components; or a minimum IELTS overall band score of 7.0, with a reading and writing

band minimum of 7.0; or a PTE score of 68; or a CAEL overall score of 70, with a minimum score of 70 on writing and reading sections. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in the Academic Writing and Composition course, a minimum grade of "A-" in the Research Writing and Form course, and a minimum grade of "B+" in other courses.

d) Two reference letters, ordinarily academic. At least one reference letter should be written by someone who has worked with the applicant at the Master's level and who is well familiar with the student's past work and research proposal.

e) An indication of possible supervisors.

f) A writing sample.

g) A 10-page statement describing the applicant's research interests and proposing a dissertation project.

h) An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Law requires students to complete:

a) [LAW703 Grad Sem Legal Res & Method](#).

b) [LAW705 Grad Seminar Legal Theory](#).

c) [LAW709 Special Topics in Law](#).

d) Additional coursework as may be required by the supervisor in consultation with the Graduate Program Director. Students may be required to carry out advanced coursework in the area of their thesis, or in a cognate area of law, or in a discipline other than law which is relevant to their thesis topic.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. On a case-by-case basis, advanced credit toward an LLM or PhD program may be given for courses completed in a graduate program within the Faculty of Law or another recognized institution. Courses for which advanced credit is being sought must not have been used for any previously completed degree/diploma/certificate credential.

### Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit will be given for additional coursework required by the supervisor in consultation with the Graduate Program Director. Such coursework may include upper-level undergraduate courses as appropriate.

## Time Limit

Students are expected to complete all requirements for the PhD in four years. Maximum time to completion is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Prospective students are required to identify possible supervisors as part of the application process. Supervisors will be determined on the basis of consultations among the student, the potential supervisor(s) and the Graduate Program Director. An interim supervisor will be assigned during the admissions process, and the supervisor and supervisory committee will be established within twelve months of the student entering the program.

## Required Examinations

In addition to the Faculty of Graduate Studies regulations for [candidacy](#) and [thesis examinations](#), the program requires:

### Candidacy

Advancing to candidacy requires the successful completion of a) all coursework; b) an original thesis proposal; and c) a field of study examination with written and oral components.

### Thesis Examination

Thesis examinations are open.

#### *Scheduling of the Examination*

Before an examination can be scheduled, all members of the supervisory committee must have reviewed the student's research, including a relevant written sample of the material related to the thesis, or the draft thesis document, and have provided written consent that the examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance will be available to qualified students in accordance with the Faculty of Law Graduate Student Funding Policy. See the [Awards and Financial Assistance](#) section of this calendar, the [Graduate Awards Database](#), and the Faculty of Law [website](#).

## Overview

### General Program Information

#### Laddering from Graduate Certificate to Graduate Diploma

Students who complete the Graduate Certificate in Leadership in Engineering and Advanced Practice may receive credit for the 12 units of coursework completed in the certificate program, if they are subsequently accepted to the Graduate Diploma in Leadership in Engineering and Advanced Practice program.

### MEng Graduate Program Office

# UCalgary

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage at <https://ucalgary.ca/future-students/graduate/explore-programs>.

Students who wish to use the certificate as a pathway to "ladder" into Graduate Diploma in Leadership in Engineering and Advanced Practice must apply at each stage and upon successful completion of each program receive a credential.

In addition to the Faculty of Graduate Studies' admission requirements, all applicants must meet the following requirements:

- a) A BSc in Engineering or equivalent.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system) calculated on the most recent 60 units of completed course work.
- c) Holders of BSc or equivalent degrees in Science, Medicine or Kinesiology, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters.
- e) Minimum of three years of work experience in engineering or a closely related field.
- f) Resume or CV.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. Upgrading requirements include a minimum of 18 units of coursework with a minimum grade of 3.00 on a 4.0-point scale in each course. At least 6 units of these courses will be at the graduate level. Upgrading courses will be prescribed by the Associate Dean (Graduate Studies) or designate in those instances where they are required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

The Graduate Certificate requires 12 units of coursework:

- 6 units of core professional and leadership courses:
  - Engineering Leadership 601
  - Engineering Leadership 603
- Plus 6 units of technical courses from one thematic area.\*

*\*Note: students will not be permitted to combine technical courses across themes; both technical courses for the certificate program and for the diploma program must be within a single theme. Students may not take the same thematic area courses in the Graduate Certificate and the Graduate Diploma. However, if a thematic/technical area has more than one theme (e.g. Power System Engineering, Project Management), then students could complete one theme in the certificate program, and the other theme in the diploma program.*

#### **Thematic areas**

##### **Sustainable Development and Environmental Engineering thematic area**

- Engineering Leadership 619; and
- Engineering Leadership 620

##### **Climate Change and Mitigation thematic area**

- Engineering Leadership 621; and
- Engineering Leadership 622

##### **Power System Engineering thematic areas**

###### *Theme 1*

- Engineering Leadership 623; and
- Engineering Leadership 624

###### *Theme 2*

- Engineering Leadership 625; and
- Engineering Leadership 626

##### **Risk Management and Decision-Making thematic area**

- Engineering Leadership 627; and
- Engineering Leadership 628

##### **Sustainable Infrastructure thematic area**

- Engineering Leadership 629; and
- Engineering Leadership 630

##### **Geospatial Data Engineering thematic area**

- Engineering Leadership 631; and
- Engineering Leadership 632

##### **Project Management thematic areas**

###### *Theme 1*

- Engineering Leadership 633; and
- Engineering Leadership 634

###### *Theme 2*

- Engineering Leadership 635; and
- Engineering Leadership 636

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

No Advanced Credit will be allowed in the graduate certificate program.

#### **Flexible Grade Option (CG Grade)**

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

The Schulich School of Engineering will not accept credit for undergraduate courses towards the Graduate Certificate in Leadership in Engineering and Advanced Practice.

## Time Limits

The expected completion time for the Graduate Certificate in Leadership in Engineering and Advanced Practice is one year, and the maximum completion time is two years.

## Supervisory Assignments

A Coordinator is assigned to each cohort in the Graduate Certificate.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is not generally available to students in the Graduate Certificate in Leadership in Engineering and Advanced Practice.

## Overview

### General Program Information

#### Laddering from Graduate Certificate to Graduate Diploma

Students who complete the **Engineerin** may receive credit for the 12 units of coursework completed in the certificate program, if they are subsequently accepted to the Graduate Diploma in Leadership in Engineering and Advanced Practice program.

### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage at <https://ucalgary.ca/future-students/graduate/explore-programs>.

Students who wish to use the certificate as a pathway to "ladder" into Graduate Diploma in Leadership in Engineering and Advanced Practice must apply at each stage and upon successful completion of each program receive a credential.

In addition to the Faculty of Graduate Studies' admission requirements, all applicants must have completed the [Engineeringin](#) with a cumulative GPA of 3.00 on a four-point scale. Students must apply to the Graduate Diploma in Leadership in Engineering and Advanced Practice within 2 years from the beginning of the Graduate Certificate program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the 12 units completed in the Graduate Certificate in Engineering Leadership and Advanced Practice, the Diploma requires 12 units of coursework:

- 6 units of core professional and leadership courses:
  - Engineering Leadership 605
  - Engineering Leadership 607
- Plus 6 units of technical courses from one thematic area.\*

*\*Note: students will not be permitted to combine technical courses across themes; both technical courses for the certificate program and for the diploma program must be within a single theme. Students may not take the same thematic area courses in the Graduate Certificate and the Graduate Diploma. However, if a thematic/technical area has more than one theme (e.g. Power System Engineering, Project Management), then students could complete one theme in the certificate program, and the other theme in the diploma program.*

#### Thematic areas

##### Sustainable Development and Environmental Engineering thematic area

- Engineering Leadership 619; and
- Engineering Leadership 620

##### Climate Change and Mitigation thematic area

- Engineering Leadership 621; and
- Engineering Leadership 622

##### Power System Engineering thematic areas

###### Theme 1

- Engineering Leadership 623; and
- Engineering Leadership 624

###### Theme 2

- Engineering Leadership 625; and
- Engineering Leadership 626

##### Risk Management and Decision-Making thematic area

- Engineering Leadership 627; and
- Engineering Leadership 628

##### Sustainable Infrastructure thematic area

- Engineering Leadership 629; and
- Engineering Leadership 630

##### Geospatial Data Engineering thematic area

- Engineering Leadership 631; and
- Engineering Leadership 632

## Project Management thematic areas

### Theme 1

- Engineering Leadership 633; and
- Engineering Leadership 634

### Theme 2

- Engineering Leadership 635; and
- Engineering Leadership 636

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

For the graduate diploma, the only advanced credit that will be considered is from the coursework in the graduate certificate program via the laddering pathway.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

The Schulich School of Engineering will not accept credit for undergraduate courses towards the Graduate Diploma in Leadership in Engineering and Advanced Practice.

## Time Limits

The expected completion time for the Graduate Diploma in Leadership in Engineering and Advanced Practice is one year, and the maximum completion time is two years.

## Supervisory Assignments

A Coordinator is assigned to each cohort in the Graduate Diploma.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is not generally available to students in the Graduate Diploma in Leadership in Engineering and Advanced Practice.

## Overview

### General Program Information

**Graduate Certificates in Social Work** serve as stand-alone credentials for practicing social workers who seek formal professional development opportunities in their field or provide practicing social workers a flexible option to pursue the MSW degree.

Students may complete a given certificate only once. Repeating the same certificate is not permitted. Not all Graduate Certificates and specializations are offered every year. For availability, consult the Faculty of Social Work [website](#).

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### Program Delivery

The certificates are completed full-time and courses are offered by distance (online) learning. Most require virtual and/or in-person residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Note: International students admitted to a Graduate Certificate with a mandatory in-person campus residency must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program.

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### Specializations (LHS):

- Indigenous Ways of Knowing in Leadership
  - The Practical and Transformational Leader
- 

### Laddered Pathway from Graduate Certificates to MSW

Students who complete the Graduate Certificate in Leadership in the Human Services (LHS) and one of: [GCERT Adva](#), [GCERT Inte](#) or [GCERT Clin](#) may apply to the Master of Social Work (course-based) program. See [LADMSWCB](#).

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

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## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-cert>

Students who wish to complete two successive certificates through a laddered pathway into the MSW (course-based) degree must apply to each certificate and the MSW (a total of three applications) and will receive each credential upon its successful completion.

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In addition to the Faculty of Graduate Studies' [admission](#) requirements, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized\* institution. The degree must be awarded prior to the start of the Graduate Certificate.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council of Social Work Education (CSWE), and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) For applicants required to present proof of proficiency in English: a minimum TOEFL score of 97 (Internet-based test with no

section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

**Note:** Once admitted, students are not permitted to switch specializations within the chosen certificate. Requests to defer an offer of admission are not normally considered.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

The Graduate Certificate consists of 12 units of coursework. Course requirements are determined by the specialization.

**Complete ANY of the following Course Sets:**

- Social Work, LHS Certificate, The Practical and Transformational Leader Specialization
- Social Work, LHS Certificate, Indigenous Ways of Knowing in Leadership Specialization

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced credit is not awarded toward a graduate certificate.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work will allow students in the Graduate Certificates in Social Work to pursue the **Flexible Grade Option (CG Grade)** for graduate courses offered by the Faculty. Students may receive a grade of CG only once, for a total of 3 units, regardless of the number of graduate certificates they complete. In addition, students may receive a grade of CG only once throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Time Limit

The expected completion time is eight months for any of the graduate certificates. Maximum completion time is two years.

Students taking graduate certificates as part of the laddered pathway to the MSW (course-based) degree program must apply to ladder into the MSW within five years from the start of their first graduate certificate in the ladder sequence.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students enrolled in a Graduate Certificate in Social Work are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The course-based program is appropriate for students who intend to provide direct service in the field. This full-time program is available for both BSW graduates and graduates from other disciplines.

### Specializations:

- Leadership in the Human Services (LHS)
- [MSWC Inter](#)
- [MSWC Clini](#)

## Program Delivery

The MSW course-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

The course-based MSW is a continuous, full-time program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are an approved leave of absence.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

# UCalgary

Fax: 403.282.7269

## Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-msw-course>.

In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

f) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide rationale in the application.

For those applying to the MSW through the MSW Laddering Pathway (upon completion of two specific Graduate Certificates), the academic reference must come from an instructor who taught the applicant in one of the Graduate Certificates.

MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in Student Orientation sessions held prior to the start of the program is mandatory for students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies requirements, the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work.**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

Foundation courses must be completed before students advance to Specialization specific courses and Advanced Practicum (Social Work 660 and 662).

In addition to Faculty of Graduate Studies requirements, the Faculty of Social Work requires:

**For students with a BSW or completed foundation courses:**

A total of 36 units of coursework, as follows:

- a) 12 units of Advanced Social Work Practice courses;
- b) 12 units of Specialization courses (topics may vary from year to year and by location);
  - Students must complete all 12 units of LHS specialization courses.
- c) 12 units of Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE).
  - Students must be available to complete 500 hours of practicum. This represents a significant time commitment. Students must ensure that they are aware of field requirements, and available for field placements as scheduled, in order to complete their practicum within the appropriate term.
  - Practicum hours are typically completed in-person, during regular business hours and close to the student's home community anywhere in Canada. International practicums may be an option for interested MSW students only in the International and Community Development specialization in their Advanced Practicum. This will be dependent on the location, scope of practice, timeframe, and supervision availability.
  - A student who fails or withdraws from a practicum course (Social Work 660 or 662) will fail or be required to withdraw from the co-requisite courses (Social Work 660 or 662). In addition, the student may be required to withdraw from the program.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, LHS Certificate, The Practical and Transformational Leader Specialization
- MSW, Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE)

The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed.

Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of Specialization topics: <https://socialwork.ucalgary.ca/>.

#### **Additional Comments:**

##### **Transfer to a Thesis-Based MSW**

Note: Students who wish to transfer to the thesis-based MSW must submit their transfer request to Student Services by January 31 prior to the thesis research courses and/or advanced practicum. Students who transfer must comply with the requirements of the respective program. The program transfer must be approved by both the Faculty of Social Work and Faculty of Graduate Studies.

\*Course-based MSW students with a non-BSW degree who receive credit by special assessment (CSA) for the Foundational Field Practicum (Social Work 633) are not eligible to transfer to the thesis-based MSW.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit is not normally granted for the Master of Social Work degree.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Master of Social Work course-based program will allow students to pursue the Flexible Grade Option (CG Grade) in one graduate course offered by the faculty, with the exception of SOWK633 Foundational Field Practicum, SOWK660 Advanced Practicum and SOWK662 Integrative Seminar.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section G.D.1.3 Concurrent Program Enrolment.

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

### Time Limits

Expected completion time is two years for BSW graduates and three years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see Time Limits) maximum completion time is six years for a course-based MSW.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see Awards and Financial Assistance for Graduate Students, the Graduate Awards Database, and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The thesis-based route may be appropriate for students who intend to proceed to doctoral studies and/or anticipate a career requiring advanced program evaluation or research skills. This full-time program is available for both BSW graduates and

graduates from other disciplines.

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## Specializations:

- Leadership in the Human Services (LHS)
- [MSWT Inter](#)
- [MSWT Clini](#)

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## Program Delivery

The MSW thesis-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/social-work-master-social-work-thesis-based>.

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In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be conferred prior to the start of the MSW program and must be from a recognized/accredited post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) A thesis proposal providing a rationale for selecting the thesis route and a preliminary research proposal describing the research problem to be investigated and the proposed research methodologies (e.g., quantitative, qualitative, mixed methods, participatory action research, arts-based, etc.), and the study's potential contribution to social work research and practice. Students applying to the thesis route are strongly encouraged to discuss this option with the PhD/MSW Thesis Program Coordinator.

f) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and B+ in other courses.

g) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide a rationale in the application.

**Note:** MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in student orientation sessions held prior to the start of the program is mandatory for incoming students. Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work:**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

\*Foundation students in the thesis-based MSW are not eligible for credit by special assessment.

Foundation courses must be completed before students advance to specialization-specific courses and the two research courses (Social Work 670 and 672).

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

**For Students with a BSW or completed foundation courses:**

A total of 30 units of coursework. The coursework consists of:

- a) 12 units of Advanced Social Work Practice courses;
- b) 12 units of specialization courses (topics may vary from year to year and by location);
- c) 6 units of research courses.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)

- Social Work, LHS Certificate, The Practical and Transformational Leader Specialization
- Social Work, MSW, Research Courses

**Note:** The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed. Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of specialization topics: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca).

All four ASWP courses and all four specialization courses are prerequisites to Social Work 670 and 672 (research courses).

## Additional Comments:

Students may elect to complete **SOWK660 Advanced Practicum** Advanced Practicum, but it is not a mandatory component of the thesis-based degree. Students who wish to complete Social Work 660 must have completed all the ASWP, specialization and research courses and must declare their intention to pursue a Practicum in writing to the Director of Field Education by March 1st of their final year of coursework (6-8 months prior to the expected start of the Practicum). The Integrative Seminar (Social Work 662) is for course-based MSW students only.

## Transfer to a Course-based MSW

Normally students who begin the MSW thesis program and then want to switch to the course-based MSW may be able to do so prior to beginning the thesis research courses and at least 8 months prior to the start of Advanced Practicum.

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

## Advanced Credit

Advanced Credit is not normally granted for the Master of Social Work degree.

## Flexible Grade Option (CG Grade)

The Faculty of Social Work Master of Social Work thesis-based program will allow students to pursue the Flexible Grade Option (CG Grade) in graduate courses offered by the faculty, with the exception of **SOWK633 Foundational Field Practicum**, **SOWK660 Advanced Practicum**, **SOWK670 Adv Method Epistemology SOWK** and **SOWK672 Thesis Research Development**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

## Time Limit

Expected completion time is three years for BSW graduates and four years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see [Time Limits](#)), maximum completion time is four years for a thesis-based MSW (for both BSW degree holders and non-BSW degree holders).

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

For incoming MSW thesis students, the PhD/MSW Thesis Coordinator will act as the interim supervisor. Before the end of April of the first year, each student must designate a faculty member as permanent supervisor. MSW thesis students will work with their supervisors to determine if a co-supervisor and/or supervisory thesis committee is preferred. This decision should be made prior to start of Social Work 670. The arrangement must be approved by the Graduate Program Director.

Within the first two months of working together, MSW thesis students and their interim and/or permanent supervisors are required to complete and submit to Student Services in the Faculty of Social Work the signed Student-Supervisor checklist and the Intellectual Property checklist. These become part of the student's permanent record. If a change occurs in supervision, a new Student-Supervisor checklist must be completed, signed and submitted to Student Services within two months of the change.

## Research Proposal Requirements

Students must have proposal approved by their supervisor and/or committee (if appropriate). A copy of the proposal becomes part of the student's record with the Faculty of Social Work. Once the proposal has been approved, students can proceed with applying for ethics certification.

## Required Examinations

### MSW Thesis Examination

The final examination for the thesis-based MSW involves an oral defence of the thesis. The thesis examination is conducted by the student's examining committee, which must be declared at least one month before the oral examination.

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following MSW examining committee composition:

- thesis supervisor, and, if applicable, co-supervisor/supervisory thesis committee,
- a faculty member from the Faculty of Social Work, and
- an Internal Examiner (external to the Faculty of Social Work).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

The Linguistics Graduate Program is offered through the School of Languages, Linguistics, Literatures and Cultures.

# UCalgary

The norm is full-time study, but part-time study may also be arranged. Full-time study is defined as in the Graduate Calendar (see **Student Status**) and is not compatible with full-time employment. Status of students with part-time employment will be determined on a case-by-case basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/graduate/degree-programs/linguistics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/linguistics-master-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/linguistics-master-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts **requirements**, the Program requires:

- Significant undergraduate training in linguistics, normally including at least one course in syntax and one course in phonology.
- A statement of purpose specifying the applicant's research interests and reasons for wishing to pursue a Master of Arts degree at the University of Calgary.
- A sample of previous work in linguistics or a related field (e.g., an Honours undergraduate thesis, or a course paper).
- Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Linguistics Graduate Program requires:

- Two formal presentations relating to the student's thesis research. The first presentation must take place no later than the end of the second semester, and the second presentation no later than the end of the third semester. Continuation in program is dependent upon these presentations being judged acceptable by the faculty members of the Linguistics program in attendance. A student will have one opportunity to redo each presentation that is judged unacceptable.
- A minimum of 18 units, including **LING611 Advanced Syntactic Analysis**, **LING613 Adv Phonological Analysis**, and **LING697 Thesis Research Development**.
- LING600 Intro Grad Studies Linguistics**.
- Knowledge of a language other than English demonstrated to the satisfaction of the Graduate Studies Committee. The following groups will be judged on acceptance to the program to have met the MA language requirement:
  - Students whose mother tongue is not English and who were required to satisfy the English language proficiency requirements for admission to program.
  - Students whose mother tongue is English and who provide evidence of past schooling in another language (e.g., schooling in an immersion program in French, German or a First Nations language).
  - Students whose mother tongue is English and who provide evidence of having completed a foreign language secondary school credit such as Spanish Language Arts 30, or French Language Arts 31.

- Students whose mother tongue is English and who provide evidence of at least A1 ("Basic User") level of proficiency in another language in the Common European Frame of Reference from a certified testing agency or a recognised academic institution (e.g., university or college) or a recognised language teaching organization.

Students whose mother tongue is English and who cannot provide evidence of prior exposure to another language on admission can meet the MA language requirement during their MA program in the following ways:

- by providing evidence of having received credit for 3 units for a University of Calgary language course, e.g., Chinese 205, French 209, German 202, Japanese 205, Russian 201.
- by providing evidence of having received credit for one of the following courses: Indigenous Languages 205, Indigenous Languages 301, Linguistics 551 or [LING605 Field Methods](#).

It is the responsibility of the student to provide relevant documentation that the MA language requirement has been met. It is strongly recommended that this program requirement be met within the first 16 months of program. It is the responsibility of the supervisor to ensure that the student meets the deadline for completing this requirement.

### Copyediting

Copyediting of the examination version of the thesis is not permitted. Students may make use of a copyeditor or copyediting service for the final version only of the thesis. The name of the copyeditor or copyediting service must appear on the Acknowledgements page.

Acknowledgement is required whether the copyediting was done by a paid professional or by an acquaintance, friend or family member. Fees for copyediting must be assumed by the student.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Linguistics program in the School of Languages, Linguistics, Literatures and Cultures will permit the Flexible Grade Option (CG Grade) for any course offered by the Linguistics program, with the exception of Linguistics 611, 613, 631.03, 651 and 697.

Students may also choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

At the master's level, with the approval of the Graduate Program Director and the School Director, a student may take for credit a maximum of 6 units at the undergraduate level. Normally, only 500-level courses are approved as acceptable, and students must provide evidence that such courses represent a necessary contribution to their program.

### Time Limit

Expected completion time is two years for a master's degree. Maximum completion time is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

**Additional Comments:**

## **Supervisory Assignments**

A student is assigned a supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and program capacity. This faculty member commits to supervising the student's thesis and to advising and mentoring the student. Since research interests can change while in program, students are free to select a different supervisor after admission to program but will normally finalize supervisory arrangements by the end of the second term of study (usually April) and must finalize supervisory arrangements by the end of the second annual registration. When a student wishes to change supervisor, that choice must be made by mutual agreement between the student and the faculty member concerned, in consultation with the Graduate Program Director.

## **Thesis Examinations**

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Program requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

*Composition of the Committee*

The Internal Examiner may be internal to the home program.

## **Financial Assistance**

### **Type**

Completion Requirement

**Additional Comments:**

Financial assistance is normally available to qualified students. Funding is provided to full-time students only. For information on awards, see the **Awards and Financial Assistance** section of this calendar.

Information on teaching and research assistantships is available on the School of Languages, Linguistics, Literatures and Cultures graduate programs **website**.

## **Overview**

### **General Program Information**

The Linguistics Graduate Program is offered through the School of Languages, Linguistics, Literatures and Cultures.

The norm is full-time study, but part-time study may also be arranged. Full-time study is defined as in the Graduate Calendar (see **Student Status**) and is not compatible with full-time employment. Status of students with part-time employment will be determined on a case-by-case basis.

Email address: **mailto:artsgradsc@ucalgary.ca**

Web page URL: **https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/graduate/degree-programs/linguistics**

## **Admissions**

### **Program Admissions Information**

Application deadlines are available on the Future Students website: **ucalgary.ca/future-students/graduate/explore-programs/linguistics-doctor-philosophy-thesis-based**

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Linguistic program requires:

- a) A Master's degree in linguistics, or a Master's degree in a related field with significant training in linguistics at the graduate level, normally including at least one graduate course in syntax and one graduate course in phonology, with a minimum grade point average of 3.40 on a four-point scale.
- b) A statement of purpose specifying the applicant's research interests and reasons for wishing to pursue a doctoral degree at the University of Calgary.
- c) A sample of previous work in linguistics or a related field (e.g., a seminar paper or Master of Arts thesis).
- d) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Linguistics Graduate Program requires:

a) Completion of 18 units in Linguistics beyond the MA, including [LING611 Advanced Syntactic Analysis](#) and [LING613 Adv Phonological Analysis](#). Course requirements are normally completed during the first two years.

Note: No more than 6 units can be taken with the same instructor.

b) [LING600 Intro Grad Studies Linguistics](#).

c) Knowledge of a language other than English demonstrated to the satisfaction of the Graduate Studies Committee. The following groups will be judged on acceptance to the program to have met the PhD language requirement:

- Students whose mother tongue is not English and who were required to satisfy the English language proficiency requirements for admission to program.
- Students whose mother tongue is English and who provide evidence of past schooling in another language (e.g., schooling in an immersion program in French, German or a First Nations language).
- Students whose mother tongue is English and who provide evidence of having completed a foreign language secondary school credit such as Spanish Language Arts 30, or French Language Arts 31.
- Students whose mother tongue is English and who provide evidence of at least A1 ("Basic User") level of proficiency in another language in the Common European Frame of Reference from a certified testing agency or a recognised academic institution (e.g., university or college) or a recognised language teaching organization.

Students whose mother tongue is English and who cannot provide evidence of prior exposure to another language on admission can meet the doctoral language requirement during their PhD program in the following ways:

- by providing evidence of having received credit for 3 units for a University of Calgary language course, e.g. Chinese 205, French 209, German 202, or Japanese 205, or Russian 201.
- by providing evidence of having received credit for one of the following courses: Indigenous Languages 205, Indigenous Languages 301, Linguistics 551 or [LING605 Field Methods](#).

It is the responsibility of the student to provide relevant documentation that the doctoral language requirement has been met. This program requirement must be met by the time the thesis proposal is submitted. It is the responsibility of the supervisor to ensure that the student meets the deadline for completing this requirement.

## Copyediting

Copyediting of the examination version of the thesis is not permitted. Students may make use of a copyeditor or copyediting service for the final version only of the thesis. The name of the copyeditor or copyediting service must appear on the Acknowledgements page.

Acknowledgement is required whether the copyediting was done by a paid professional or by an acquaintance, friend or family member. Fees for copyediting must be assumed by the student.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Linguistics program in the School of Languages, Linguistics, Literatures and Cultures will permit the Flexible Grade Option (CG Grade) for any course offered by the Linguistics program, with the exception of Linguistics 611, 613, 631.03, 651 and 697.

Students may also choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At the doctoral level, with the approval of the Graduate Program Director and the School Director, a student may take for credit a maximum of 6 units at the undergraduate level. Normally, only 500-level courses are approved as acceptable, and students must provide evidence that such courses represent a necessary contribution to their program.

## Time Limit

Expected completion time is four years for a doctoral degree. Maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

A student is assigned a supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and program capacity. This faculty member commits to supervising the student's thesis and to advising and mentoring the student. Since research interests can change while in program, students are free to select a different supervisor after admission to program but will normally finalize supervisory arrangements by the end of the second term of study (usually April) and must finalize supervisory arrangements by the end of the second annual registration. When a student wishes to change supervisor, that choice must be made by mutual agreement between the student and the faculty member concerned, in consultation with the Graduate Program Director.

Once doctoral students have finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and two other faculty members from the program. One of the two members of this committee may be external to the program. It is desirable to have at least one committee member with supervisory experience at the doctoral level.

See [Supervision](#) for more information.

## Required Examinations

### Candidacy

To be admitted to candidacy, doctoral students must successfully complete an oral and written field of study examination and

an oral examination on the thesis proposal. Doctoral students are required to take the field of study Examination after completion of all course work, normally within 26 months of first registration. Students must complete and submit a written thesis proposal to their Supervisory Committee within two months of passing the Field of Study examination.

See [Linguistics Candidacy Requirements](#) for more information.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is normally available to qualified students. Funding is provided to full-time students only. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Information on teaching and research assistantships is available on the School of Languages, Linguistics, Literatures and Cultures graduate programs [website](#).

## Overview

### General Program Information

The MA degree may be taken on a full-time or a part-time basis.

### Specializations:

- French
- Spanish

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [slllc.ucalgary.ca](http://slllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-course-based](http://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-course-based)

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

a) A sufficiently high level of oral and written competence in the target language (a recommended minimum of CEFR level B2, ACTFL Intermediate-High, or equivalent. For CEFR standards, see: [coe.int/lang-CEFR](http://coe.int/lang-CEFR). For ACTFL standards, see: [actfl.org/publications/all](http://actfl.org/publications/all).

b) An adequate academic background in one of the fields of Modern Languages, Linguistics, Literary, Film or Cultural Studies or other closely related field.

- c) An academic writing sample (of approximately 8-15 pages): a term paper, research paper or other writing, which the applicant considers representative of their best work.
- d) A Statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this program.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Thirty units, including [LLAC600 Intro Graduate Studies in LLAC](#), [LLAC601 Additional Language Pedagogy](#), and, depending on research perspective, either [LLAC602 Res Methods in Applied Ling](#) or [LLAC603 Thr'y Mthd's Lit Cltr'l Study](#).

b) A written essay (of approximately 20 pages), to form the basis for the Capstone Examination.

Applicants lacking the requisite background in language or literature may be admitted as qualifying students. In this case, extra course work is normally required. A qualifying oral examination based on set texts may be required before the students attain regular Master of Arts status. Courses taken as a qualifying student do not normally count as part of the student's course requirements.

##### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

Note: Normally no more than 3 units of Directed Reading may be taken for credit.

a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.

b) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:

- [LANG615 2nd Lang Learning & Technology](#)
- [LANG625 2nd Lang Learn Cult Understand](#)
- [LANG699 Res Sem in 2nd Lang Learning](#)
- [EDER613 Change&InnovationInEducation](#)
- [EDER667 2nd Language Reading & Writing](#)
- [EDER669 Aspect of Secd Lang & Culture](#)
- [EDER696 Special Topics in Education](#)
- DELE/DELF/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

c) MA students in French and Spanish have a knowledge areas requirement that must be satisfied by the first month of the second year in program, or, as appropriate, one month after the completion of course work, whichever occurs first. MA students in French are expected to complete coursework that fulfills five knowledge areas, and MA students in Spanish are expected to complete coursework on all of the knowledge areas.

**Knowledge areas: French**

Medieval and Early Modern French Literature and Culture, Modern French Literature and Culture, Contemporary Literature and Culture of France, Franco-Canadian and Québécois Literature and Culture, Francophone Studies (outside Canada), History or Theories of Language, Theories of Culture or Literature.

**Knowledge areas: Spanish**

Medieval and early Modern Spanish Literature and Culture, Spanish American Literature and Culture to 1900, Modern and Contemporary Peninsular Literature and Culture, Latin American Literature and Culture since 1900, History or Theories of Language, Theories of Culture or Literature.

When studying an application for admission, the Graduate Program Director, in consultation with the Graduate Committee, will determine, based on undergraduate transcripts, which of the required knowledge areas have not yet been satisfied. Where the appropriateness of a course to fulfill a knowledge area is in doubt, a syllabus and/or a course description will be requested from the applicant. Upon admission, students will be advised of any specific course or other work needed to fulfill this requirement. Unfulfilled knowledge areas may be accomplished by either completing a graduate course in the area, which will form part of the course requirements (or may be in addition to them), or by completing specific readings under the supervision of an area specialist followed by demonstration of good knowledge of the specific area. This will be in the form of a paper written in response to a specific question, followed by an evaluation of the paper and an oral exam with the area specialist and another member of the School.

d) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

**Flexible Grade Option (CG Grade)**

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

**Time Limit**

Expected completion time for full-time students in a course-based MA program is two years. Maximum completion time is six years.

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

The Graduate Program Director is normally the interim supervisor for newly admitted students. Students are expected to choose a permanent supervisor by the end of the second regular academic session after first registration (April 30 for September registrants and December 15 for January registrants). Selection of a supervisor should be by mutual agreement between the student and the staff member concerned, approved by the Graduate Program Director, and is based on the stated research interests of the students, the disciplinary expertise of faculty members and program capacity.

### Capstone Examination

The course-based programs require a capstone comprehensive examination with a written and an oral component, taken after the completion of all course work and any other requirement such as the knowledge areas requirement. Students are required, as early as possible and, in any case, at least before registering for a final semester, to file the reading list on their chosen area of specialization with the program's Graduate Committee. The list should be drafted after consultation with the student's supervisor and approved by that faculty member.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

The MA degree may be taken on a full-time or a part-time basis.

#### Specializations:

- Applied Linguistics
- French
- German
- Spanish
- Transcultural Studies

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [slllc.ucalgary.ca](http://slllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

a) A sufficiently high level of oral and written competence in the target language (a recommended minimum of CEFR level B2, ACTFL Intermediate-High, or equivalent. For CEFR standards, see: [coe.int/lang-CEFR](http://coe.int/lang-CEFR). For ACTFL standards, see: [actfl.org/publications/all](http://actfl.org/publications/all).

- b) An adequate academic background in one of the fields of Modern Languages, Linguistics, Literary, Film or Cultural Studies or other closely related field.
- c) An academic writing sample (of approximately 8-15 pages): a term paper, research paper or other writing, which the applicant considers representative of their best work.
- d) A Statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this program.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the program requires:

- a) Eighteen units, including Languages, Literatures and Cultures 600, 601 and, depending on research perspective, either Languages, Literatures and Cultures 602 or 603.
- b) A scholarly and/or critical thesis (approximately 100 pages).

Applicants lacking the requisite background in language or literature may be admitted as qualifying students. In this case, extra course work is normally required. A qualifying oral examination based on set texts may be required before the students attain regular Master of Arts status. Courses taken as a qualifying student do not normally count as part of the student's course requirements.

##### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

Note: Normally no more than 3 units of Directed Reading may be taken for credit.

- a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.
- b) Before the end of their second year of study, MA Thesis students are required to make an internal or external presentation relating to their research.
- c) Students in the thesis-based programs are also expected to demonstrate their participation in university-wide research activities by attending internal or external scholarly presentations every year in their programs. A minimum of one workshop on language training (see section (d) below) and at least two other presentations are required. Students should list all presentations attended in their Annual Progress Report.
- d) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:
  - [LANG615 2nd Lang Learning & Technology](#)
  - [LANG625 2nd Lang Learn Cult Understand](#)
  - [LANG699 Res Sem in 2nd Lang Learning](#)
  - [EDER613 Change&InnovationInEducation](#)
  - [EDER667 2nd Language Reading & Writing](#)
  - [EDER669 Aspect of Secd Lang & Culture](#)
  - [EDER696 Special Topics in Education](#)
  - DELE/Delf/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

e) MA students in French and Spanish have a knowledge areas requirement that must be satisfied by the first month of the second year in program, or, as appropriate, one month after the completion of course work, whichever occurs first. MA students in French are expected to complete coursework that fulfills five knowledge areas, and MA students in Spanish are expected to complete coursework on all of the knowledge areas.

### **Knowledge areas: French**

Medieval and Early Modern French Literature and Culture, Modern French Literature and Culture, Contemporary Literature and Culture of France, Franco-Canadian and Québécois Literature and Culture, Francophone Studies (outside Canada), History or Theories of Language, Theories of Culture or Literature.

### **Knowledge areas: Spanish**

Medieval and early Modern Spanish Literature and Culture, Spanish American Literature and Culture to 1900, Modern and Contemporary Peninsular Literature and Culture, Latin American Literature and Culture since 1900, History or Theories of Language, Theories of Culture or Literature.

When studying an application for admission, the Graduate Program Director, in consultation with the Graduate Committee, will determine, based on undergraduate transcripts, which of the required knowledge areas have not yet been satisfied. Where the appropriateness of a course to fulfill a knowledge area is in doubt, a syllabus and/or a course description will be requested from the applicant. Upon admission, students will be advised of any specific course or other work needed to fulfill this requirement. Unfulfilled knowledge areas may be accomplished by either completing a graduate course in the area, which will form part of the course requirements (or may be in addition to them), or by completing specific readings under the supervision of an area specialist followed by demonstration of good knowledge of the specific area. This will be in the form of a paper written in response to a specific question, followed by an evaluation of the paper and an oral exam with the area specialist and another member of the School.

f) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

## **Additional Program Information**

### **Type**

Completion Requirement

### **Additional Comments:**

## **Advanced Credit**

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

## **Flexible Grade Option (CG Grade)**

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## **Credit for Undergraduate Courses**

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

## **Time Limit**

Expected completion time for full-time students in a master's thesis MA program is two years. Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director is normally the interim supervisor for newly admitted students. Students are expected to choose a permanent supervisor by the end of the second regular academic session after first registration (April 30 for September registrants and December 15 for January registrants). Selection of a supervisor should be by mutual agreement between the student and the staff member concerned, approved by the Graduate Program Director, and is based on the stated research interests of the students, the disciplinary expertise of faculty members and program capacity.

## Research Proposal

Thesis students are required to submit a written thesis proposal thirteen months after initial registration (for September registrants: 1st draft to the supervisor is due by September 1 and the thesis proposal to the Graduate Committee is due by September 30; for January registrants: 1st draft to the supervisor is due by January 2 and the thesis proposal to the Graduate Committee is due by February 1). This proposal should be approximately 1200 words in length and be accompanied by an abstract and an appropriately detailed preliminary bibliography. It should be drafted after consultation with the student's supervisor and have their preliminary approval. These documents will be circulated to the program's Graduate Committee for approval. Abstracts of proposals may be reproduced for information purposes.

## Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

### Specializations:

- Applied Linguistics

# UCalgary

- French
- German\*
- Spanish
- Transcultural Studies

\*As part of the graduate program in German, students may participate in a one-semester exchange with Justus-Liebig-Universität Gießen.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [sllc.ucalgary.ca](http://sllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-doctor-philosophy-thesis-based)

In addition to the **admission requirements** of the Faculties of Graduate Studies and Arts, the Department requires:

- A Master of Arts degree in one of LLAC's areas of specialization, or equivalent.
- A grade point average of 3.40 (based on a 4-point system) on the work of the last two years of study.
- A sufficiently high level of oral and written competence in the target language (CEFR level C1 or equivalent). For CEFR standards, see: [coe.int/lang-CEFR](http://coe.int/lang-CEFR).
- An adequate academic background in the discipline.
- A research proposal of approximately 2-3 pages.
- A sample of critical writing: MA thesis or research paper or other writing, which the applicant considers representative of their best work. Either the sample research paper or the research proposal must be submitted in the target language of study.
- A statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this unit.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department requires:

- Course Requirements: Eighteen units beyond the MA. Courses must include **LLAC600 Intro Graduate Studies in LLAC**, **LLAC601 Additional Language Pedagogy**, and, depending on research perspective, either **LLAC602 Res Methods in Applied Ling** or **LLAC603 Thr'y Mthd's Lit Cltr'l Study**, unless these courses were taken in the MA program.
- A Third Language Requirement: All students must demonstrate, at a minimum, reading comprehension of a language other than English and the target language of the PhD program, at a level sufficient for the use and understanding of scholarly material. This language will normally be related to the student's thesis research. The language requirement is deemed to have been satisfied when the student has either:

- (i) successfully completed a fourth semester language course;
  - (ii) successfully completed a language-proficiency examination designed specifically for graduate students by a relevant academic designated specialist. Such an examination tests the student's reading proficiency, by testing their understanding of a scholarly article;
  - or (iii) successfully completed a B1 Common European Framework of Reference (CEFR) examination, when available.
- c) A thesis.

### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

**Note:** Normally no more than 3 units of Directed Reading may be taken for credit.

- a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.
- b) Students in the thesis-based programs are also expected to demonstrate their participation in university-wide research activities by attending internal or external scholarly presentations every year in their programs. A minimum of one workshop on language training (see section (d) below) and at least two other presentations are required. Students should list all presentations attended in their Annual Progress Report.
- c) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:
  - [LANG615 2nd Lang Learning & Technology](#)
  - [LANG625 2nd Lang Learn Cult Understand](#)
  - [LANG699 Res Sem in 2nd Lang Learning](#)
  - [EDER613 Change&InnovationInEducation](#)
  - [EDER667 2nd Language Reading & Writing](#)
  - [EDER669 Aspect of Secd Lang & Culture](#)
  - [EDER696 Special Topics in Education](#)
  - DELE/Delf/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

- d) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

### Flexible Grade Option (CG Grade)

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy. Maximum completion time is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

A student is assigned an interim supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and Program capacity. Students will normally have a permanent supervisor by the end of the second term of study (usually April) and must finalize supervisory arrangements no later than twelve months after first registration.

Once the student has finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and two other faculty members from the program. One of the two members of this committee may be external to the program. See [Supervision](#) for more information.

### Research Proposal

Students must prepare a thesis proposal as part of candidacy requirements. Details can be found at [slllc.ucalgary.ca/graduate/graduate-program-llac](http://slllc.ucalgary.ca/graduate/graduate-program-llac).

### Required Examinations

#### Candidacy

Doctoral students are required to pass written and oral field of study examinations and an oral examination on the thesis proposal. Specific details of the examination format and other candidacy requirements can be found at [slllc.ucalgary.ca/graduate/graduate-program-llac](http://slllc.ucalgary.ca/graduate/graduate-program-llac).

#### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](https://grad.ucalgary.ca/awards).

## Overview

### General Program Information

Web page URL: <https://haskayne.ucalgary.ca/graduate-certificate-in-management-analytics>

## Admissions

### Program Admissions Information

In addition to the Faculty of Graduate Studies [admission](#) requirements, all applicants must meet the following requirement:

- A Master of Business Administration or Master of Management or equivalent Graduate degree from a recognized/accredited post-secondary institution.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into a Graduate Certificate program with an online non-refundable deposit of \$500.

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business requires:

The certificate requires 12 units of coursework consisting of two core and two elective courses as listed below.

##### Complete ALL of the following Courses:

- BIMA612 - Data Analytics I  
**AND** BIMA620 - Predictive Analytics in Business

Two from the following elective courses:

##### Complete at least 2 of the following courses:

- BIMA621 - Marketing Analytics  
**OR** BIMA622 - Prescriptive Analytics in Business  
**OR** BIMA623 - Supply Chain Analytics  
**OR** BIMA624 - Analytics of International Business Environment  
**OR** BIMA625 - FinTech

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

No Advanced Credit will be considered.

### Flexible Grade Option (CG Grade)

Students admitted to a graduate certificate program will not be allowed to request the Flexible Grade Option (CG Grade) option for any course that is applicable to their certificate; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

The expected completion time for the graduate certificates is 8 months. The maximum completion time is 3 years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

No financial assistance is available for the graduate certificate programs.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

In Canada, the Canadian Architectural Certification Board (CACB) is the sole agency authorized by the Regulatory Organization of Architecture in Canada (ROAC) to accredit Canadian professional degree programs in architecture for the purposes of architectural licensure.

Location: City Building Design Lab

616 Macleod Trail SE

Calgary, Alberta T2G 2M2

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: [info@sapl.ucalgary.ca](mailto:info@sapl.ucalgary.ca)

Web page URL: [sapl.ucalgary.ca](http://sapl.ucalgary.ca)

## Admissions

## Program Admissions Information

Application deadline is available on the Future Students website: <https://grad.ualgary.ca/future-students/explore-programs/architecture-march-course>.

Prospective applicants are advised to use opportunities within their four-year recognized university undergraduate degree studies to develop knowledge in at least one and possibly more than one of the following areas: design, humanities, social sciences, arts, engineering, biological or earth sciences – including, wherever possible, studio, laboratory and collaborative learning experiences.

In addition to Faculty of Graduate Studies requirements for [Admissions](#), the program requires:

a) Architectural Image Paragraph

Applicant to provide an image or photograph that holds architectural significance and write a paragraph (maximum 500 words) as to why they chose it. The words should clarify their choice and explain the relevance to the field.

b) Digital Portfolio

Candidates for MArch must provide evidence of original and/or creative work in any field or medium, and provide in writing a brief description of the work. The requirements for digital portfolio submissions are found on the School of Architecture, Planning and Landscape website at: <https://sapl.ualgary.ca/future-students/graduate/master-architecture-march>.

c) Curriculum Vitae

A current copy of curriculum vitae (CV).

d) Reference Letters

Three reference letters, of which at least two should be academic.

e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a TOEFL score of 105 (Internet-based test); or an IELTS score of 7.5; a CAEL score of 70 (with no section less than 70); a PTE with a minimum score of 59; a Duolingo score of 145 (with no subscore below 125); or a Cambridge C1/C2 Proficiency score of 200. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

Note: Applicants must demonstrate successful completion of one or more years of undergraduate-level coursework in four areas: Design, Technology, Graphics, and History/Theory (equivalent to the courses taken in the minor in Architectural Studies, or in the MArch Foundation year). In order to complete these prerequisite requirements, applicants may be admitted to the MArch Foundation or qualifying year. An assessment of these prerequisite requirements will be made by an admissions committee and applicants will be informed in offers of admission which, if any, courses at the Foundation level will be required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

The Master of Architecture program is structured around a core studio sequence. Required courses and electives make up the remainder of the program. In addition to the Faculty of Graduate Studies [requirements](#), successful completion of the MArch must include the following academic requirements:

Foundation Year (Qualifying Year) - 31.5 units

**Complete ALL of the following Courses:**

- ARCH500 - Sustainability in the Built Environment  
**AND** ARCH502 - History of Architecture and Human Settlements I - Premodern Traditions of the World  
**AND** ARCH504 - Graphics Workshop I  
**AND** ARCH506 - Studio I in Architecture

**AND ARCH508 - Building Science and Technology I**

**AND ARCH510 - History of Architecture and Human Settlements II - The Rise of Modernity, 1750 to Present**

**AND ARCH512 - Graphics Workshop II**

**AND ARCH514 - Studio II in Architecture**

- **ARCH672 - Experiential Learning in Architecture**

**OR ARCH674 - Experiential Learning in Architecture**

a) 54 units of core required courses:

**Complete ALL of the following Courses:**

- **ARCH600 - Structures for Architects I**  
**AND ARCH602 - Introduction to Design Theories**  
**AND ARCH604 - Leadership in Architecture**  
**AND ARCH606 - Intermediate Architectural Design Studio**  
**AND ARCH608 - Architectural Lighting Design**  
**AND ARCH610 - Structures for Architects II**  
**AND ARCH612 - Building Science and Technology II**  
**AND ARCH614 - Environmental Control Systems**  
**AND ARCH616 - Comprehensive Architectural Design Studio**  
**AND ARCH618 - Architectural Professional Practice**  
**AND ARCH675 - Urban Systems**  
**AND ARCH688 - City Studio in Architecture**  
**AND ARCH700 - Senior Research Studio in Architecture I**  
**AND ARCH702 - Senior Research Studio in Architecture II**

b) 3 units from:

**Earn at least 3 credits from the following:**

- **ARCH692 - Gillmor Theory Seminar**  
**OR ARCH696 - Somerville Design Charrette**  
**OR ARCH698 - Taylor Workshop**

Note: upon completion of the requirement, any of the courses listed in b) may be taken or repeated for elective credit.

c) 9 units from:

**Earn at least 9 credits from the following:**

- **ARCH680 - Special Topics in Architecture**  
**OR ARCH682 - Special Topics in Architecture**  
**OR ARCH684 - Special Topics in Architecture**  
**OR ARCH686 - Topics Course in Architecture**

d) 3 units from:

**Earn at least 3 credits from the following:**

- **ARCH690 - Studio Research Selective**  
**OR ARCH694 - Studio Research Selective**

e) 3 units from:

**Earn at least 3 credits from the following:**

- **ARCH670 - Experiential Learning in Architecture (Inactive)**  
**OR ARCH672 - Experiential Learning in Architecture**

**OR ARCH674 - Experiential Learning in Architecture**

**OR ARCH676 - Experiential Learning in Architecture**

f) 3 units of elective credits from other courses offered by SAPL or the University of Calgary at the 500-level or higher that relate to individual interests in Architecture.

**Additional Comments:**

### **Reappraisal of Academic Assessments (Final Grades)**

Students enrolled in SAPL graduate credentials must request a **Reappraisal of Academic Assessments (Final Grades)** within 5 business days of the start of the subsequent term.

**Reappraisal of Academic Assessments (Final Grades)** in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

#### **Additional Program Information**

##### **Type**

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

A student may apply for **Advanced Credit** for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See Advanced Credit.

Course Exemptions: Students registered in a graduate degree program may receive an exemption from a specific course if they can demonstrate successful completion of an equivalent course. In order to be eligible for an exemption, the student must provide original transcripts, course outlines and samples of course assignments which will be assessed for academic equivalency. Courses for which exemptions are being sought must be from a recognized institution, and they must be graded courses with a minimum grade of "B-". Students granted an exemption from a course may be required to take another, equally-weighted, course to satisfy credit-hour requirements for their program.

### **Flexible Grade Option (CG Grade)**

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### **Additional Requirements**

A laptop computer is required for all course-based degree programs in the School of Architecture, Landscape and Planning. Further information pertaining to specifications will be sent out to newly-admitted students in the summer term prior to the commencement of their studies.

Attendance at orientation for first year students is required.

### **Credit for Undergraduate Courses**

Only undergraduate courses numbered 500-599 may be considered for graduate-level credit and are subject to approval by the Associate Dean (Architecture).

## Time Limits

Students are expected to enrol on a full-time basis and complete the degree requirements within two registration years (excluding the Foundation year). Maximum completion time is six registration years. See [Time Limits](#).

## Supervisory Assignments

Upon admission, each MArch student will be advised by the Graduate Program Administrator regarding Program of Study development.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

Students can complete the Haskayne MBA through full-time study either through the daytime or the evening.

### MBA Specializations:

- Business Intelligence and Data Analytics
- Entrepreneurship and Innovation
- Finance
- Global Energy Management and Sustainable Development
- Management Analytics
- Marketing
- Project Management
- Real Estate Studies

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

In addition to the Faculty of Graduate Studies [admission](#) requirements for Admission, the program requires:

- a) A current résumé.
- b) A 250-word response to each of two questions provided as part of the application process.

## UCalgary

c) For applicants required to prove present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20 (Internet-based test), or an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum overall grade of "A-".

d) The Graduate Management Admission Test (GMAT) is only required for applicants with a degree from an institution outside of Canada or the United States with a recommended minimum score of 550 or an equivalent Graduate Record Examination (GRE) score.

Applicants with a degree from an institution in Canada or the United States with a grade point average (GPA) of at least 3.0 on a four-point scale are exempt from submitting a GMAT score. An applicant who has completed a bachelor's degree from an institution in Canada or the United States with a GPA from 2.50 to 2.99, and chooses to submit a GMAT score, may be admitted to an MBA course-based program as a regular student on the basis of the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150$ .

*\*Consult the Haskayne School of Business about the Graduate Management Admission Test.*

e) Two reference letters.

f) For the course-based Day and Evening MBA program only, the equivalent of at least 2 years of appropriate work experience.

g) Applicants may be required to participate in an interview.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the MBA program with an online non-refundable deposit:

Daytime MBA: \$3,000

Evening MBA: \$3,000

Accelerated MBA: \$3,000

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the **requirements** of the Faculty of Graduate Studies, the Haskayne School of Business requires:

The MBA degree normally consists of 60 units. Students may be granted exemption from required courses based upon prior academic preparation and with the approval of the Graduate Director (MBA Program). Students must complete a minimum of 45 units, of which a maximum of 15 units may be transfer credit from another recognized graduate program, for the MBA degree.

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses

#### Specializations

Students must complete 18 units of additional courses beyond the required courses. Within these 18 units, students may select an area of specialization normally consisting of 12 units. Specialization requirements are as follows:

**Earn at least 12 credits from the following:**

- MBA, Business Intelligence and Data Analytics Specialization
- MBA, Entrepreneurship and Innovation
- MBA, Finance

- MBA, Global Energy Management and Sustainable Development
- MBA, Management Analytics
- MBA, Marketing
- MBA, Project Management
- MBA, Real Estate Studies

Students who elect not to choose an area of specialization may choose instead from various graduate courses offered by the Haskayne School of Business. Subject to the approval of the Graduate Director (MBA Program) and the Faculty of Graduate Studies, graduate courses offered at the University of Calgary outside the Haskayne School of Business may also be taken.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the MBA (course-based) program, Executive MBA program or Executive MBA Specializing in Global Energy program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

The day MBA option normally takes 20 months to complete (from first registration), while the evening option normally takes three years. Maximum time limit: six years.

#### Financial Assistance

##### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Scurfield Hall, Room 302

MBA Program: 403.220.3808

# UCalgary

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate application for admission to the other program. The respective Combined Program Committee will review each application.

Please note that receiving admission to both individual programs does not guarantee admission to the combined program.

For MBA admission requirements, see [Master of](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

Course requirements include:

- a) MBA courses (54 units); and
- b) MBT courses (37 units)

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses
- MBT Required Courses

plus:

- four elective courses (3 units each) in the student's area of interest.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to a combined MBA program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

MBA: six years

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

Master of Nursing/Master of Business Administration (MN/MBA) is a combined program offered with the Haskayne School of Business.

**\*Program is suspended and is not currently accepting applications.**

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website.

For MN deadlines, see <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-master-nursing-course-based>.

A separate application to the MBA program is required. For MBA deadlines, see <https://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Applicants to the combined MN/MBA program must be admitted to the MN program, and make a separate application for admission to the MBA program. Students must meet the requirements of the MN and MBA programs. The respective Combined Program Committee will review each application. Normally, only a full-time student in the Master of Nursing program may take a combined program. Please consult with the Faculty of Nursing Graduate Programs Office for more information.

For MBA admission requirements, see **Master of**.

### MN Admission Requirements

In addition to the Faculty of Graduate Studies **admission** requirements, the Faculty of Nursing requires that an applicant must:

- Be a Registered Nurse or a Registered Psychiatric Nurse holding a baccalaureate degree, normally in nursing.
- Registered Nurses must be eligible for active nursing registration in Alberta (registrants in the program must provide proof of active CARNA registration or equivalent each year); Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent each year.
- Have completed one undergraduate course (3 units) in statistics with a grade of "C" or better.

- d) Submit two references, one from someone capable of assessing the applicant's academic and research ability, normally an academic, and one from someone who can attest to the applicant's nursing practice and expertise.
- e) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in writing courses.
- f) Have an interview(s) with a faculty member, if requested by the Faculty.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' **requirements**, the Faculty of Nursing and Haskayne School of Business require the following:

Students admitted to the MN/MBA will focus on courses for the MN during the first year and on MBA courses in years two and three. Typically, the remaining courses required will be completed in year three. A total of 66.75 units is required.

Course requirements include:

a) MBA courses (51 units):

**Complete ALL of the following Courses:**

- ACCT601 - Introductory Financial Accounting  
**AND** ACCT603 - Management Accounting  
**AND** SGMA603 - Global Environment of Business  
**AND** BTMA601 - Business Technology Management  
**AND** ENTI601 - Entrepreneurial Thinking  
**AND** FNCE601 - Managerial Finance  
**AND** MGST611 - Managerial Economics  
**AND** MGST613 - Managerial Decision Modeling  
**AND** MGST615 - Strategic Business Analysis  
**AND** MKTG601 - Marketing Management  
**AND** OPMA601 - Operations Management  
**AND** OBHR601 - Organizational Behaviour  
**AND** OBHR621 - Advanced Leadership  
**AND** SGMA601 - Strategic Management I
- plus three elective courses (3 units each) in the student's area of interest.

b) MN courses (15 units):

**Complete ALL of the following Courses:**

- NURS611 - Theoretical Knowledge for Advanced Nursing Practice  
**AND** NURS630 - Quantitative Research and Statistics  
**AND** NURS632 - Writing Proposals for the Nursing Profession  
**AND** NURS660 - Cultivating Personal Leadership I  
**AND** NURS683 - Qualitative Designs And Analyses

#### Additional Comments:

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the

program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Credit for Undergraduate Courses

Under special circumstances, with the consent of the Faculty, students may take undergraduate courses, normally at the senior or 500-level, for the Master of Nursing degree.

#### Supervisory Assignments

No supervisor will be assigned.

#### Time Limit

Expected completion time for the Master of Nursing portion is one year. Maximum completion time is two years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing Website prior to each competition deadline. The application deadline for internal scholarships is February 1. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate

application for admission to the other program. The respective Combined Program Committee will review each application. Please note that receiving admission to both individual programs does not guarantee admission to the combined program. For MBA admission requirements, see [Master of](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the School of Architecture, Planning and Landscape and the Haskayne School of Business require :

Students admitted to the MPlan/MBA will focus on courses for the MBA during the first year and on MPlan courses in years two and three. Typically, the Real Estate Studies specialization will be completed in year four. Course requirements include:

a) MBA courses (54 units):

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses

plus:

- four elective courses (12 units total) in the Real Estate Studies specialization.

b) MPlan courses (57 units of core required courses):

**Complete ALL of the following Course Sets:**

- MBA/MPlan combined -Planning courses

plus:

- three elective courses (9 units total) in the Real Estate Studies specialization approved by SAPL, Master of Planning program.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to a combined MBA program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

MBA: six years

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

The MBA/MPP program is normally restricted to full-time study. It allows students to obtain both degrees in a significantly shorter time frame than if they are taken separately.

Mathison Hall, Room 424

MBA Program: 403.220.2808

Fax: 403.220.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

School of Public Policy, Downtown Campus

906 8th Avenue SW, 5th Floor

Calgary, Alberta T2P 1H9

Program number: 403.210.7109

Fax: 403.210.6939

Email address: <mailto:mpp@ucalgary.ca>

Web page URL: <https://spp.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications for the MPP program is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Deadline for the submission of completed applications for the MBA (course-based) program is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Students must meet the [admission](#) requirements for the Faculty of Graduate Studies and those for the [MBA and MPP programs](#). Please consult the MBA Admissions Officer or the MPP Office for more information.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business and the School of Public Policy require:

Course requirements include:

a) MBA courses (51 units):

**Complete ALL of the following Course Sets:**

- MBA Courses (MBA/MPP combined)

plus:

- three elective courses (3 units each) in the student's area of interest.

b) MPP courses:

**Complete ALL of the following Course Sets:**

- Core MPP Courses

plus:

- A total of six units of electives. This can include [PPOL699 Topics in Public Policy](#) or other graduate-level coursework approved by the Graduate Program Director. The two elective courses should be related in such a way that they form a focus in an area of public policy.

#### Additional Comments:

For students enrolled in the MBA/MPP, one three-unit MBA course will be counted toward the MPP core requirements set out in (b) and one three-unit MBA course will be counted toward the elective requirement set out in (b). All other requirements set out in (a)-(b) apply to students in the joint program.

Students will normally focus on courses for the MBA during the first year and on MPP courses including [PPOL620 Capstone Preparation](#) and [PPOL623 Capstone Project](#) (capstone) in year two. Typically, the remaining courses will be completed in the first term of year three. Please consult the MBA or the MPP Office for more information.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma. If graduate-level courses are taken as post-BA courses and not used as credit towards another degree, the School may allow the student to claim up to 6 units at our graduate level towards the MPP requirements should the student be admitted into the MPP program.

### Flexible Grade Option (CG Grade)

Students admitted to the Master of Public Policy program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will affect students' ability for internal awards.

### Credit for Undergraduate Courses

No credit will be given for courses taken below the 600-level, except in special cases.

### Time Limit

Maximum completion time for the MPP is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All MPP students in the program will be guided by faculty holding appointments to the School.

### Required Examinations

No additional examinations outside of the courses are required.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

#### Specialization:

- Bioinformatics

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

Location: Health Sciences Centre, Room G341A

Email address: [bmbgrad@ucalgary.ca](mailto:bmbgrad@ucalgary.ca)

Web page URL: <https://cumming.ucalgary.ca/gse/programs/biochemistry-and-molecular-biology>

## Admissions

### Program Admissions Information

See <http://www.ucalgary.ca/future-students/graduate/explore-programs/biochemistry-molecular-biology-master-science-thesis-based>.

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In addition to Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- A minimum 3.30 grade point average is also required in courses relevant to the proposed field of study.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Master's applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- A current curriculum vitae.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of biochemistry and molecular biology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 6 units, which is met by:

- the satisfactory completion of [MDGE721 BCEM Molec Biol: Sci Data Comm](#) (1 unit) and two additional 1-unit [MDGE courses](#), excluding Medical Graduate Education 755; and
- the satisfactory completion of additional 3 units in graduate-level courses in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.
- Bioinformatics specialization students are required to take the Foundations of Bioinformatics course - [MDGE610 Foundations of Bioinformatics](#). [MDGE612 Foundations Machine Learning](#) - Foundations of Machine Learning is highly recommended.

Exceptions require the approval of the Graduate Program Director.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring an applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.  
The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

## Supervisory Assignment, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the students and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the appointment of the permanent supervisor.

## Research Proposal Requirements

All MSc students must defend a written research proposal to their supervisory committee. This document must be submitted within 12 months after initial registration in the program.

## Required Examinations

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

## UCalgary

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

#### Specialization:

- Bioinformatics

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

Location: Health Sciences Centre, Room G341A

Email address: [bmbgrad@ucalgary.ca](mailto:bmbgrad@ucalgary.ca)

Web page URL: <https://cumming.ucalgary.ca/gse/programs/biochemistry-and-molecular-biology>

## Admissions

### Program Admissions Information

See <http://www.ucalgary.ca/future-students/graduate/explore-programs/biochemistry-molecular-biology-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies regulations, the Cumming School of Medicine graduate programs require:

## Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work if applicable.
- A minimum 3.30 grade point average is also required in courses relevant to the proposed field of study.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or

- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Doctoral applicants are required to arrange for the submission of three reference letters. References must follow the guidelines posted on the program's website for prospective students.
- A current curriculum vitae.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of biochemistry and molecular biology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 9 units, which is met by:

- the satisfactory completion of [MDGE721 BCEM Molec Biol: Sci Data Comm](#) (1 unit) and two additional 1-unit [MDGE courses](#), excluding Medical Graduate Education 755; and
- the satisfactory completion of additional 6 units in graduate-level courses in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.
- Only one [MDSC755 Directed Study](#) or [MDGE755 Directed Studies](#) course can be taken for credit.
- Bioinformatics specialization students are required to take the Foundations of Bioinformatics course - [MDGE610 Foundations of Bioinformatics](#). [MDGE612 Foundations Machine Learning](#) - Foundations of Machine Learning is highly recommended.

Exceptions require the approval of the Graduate Program Director.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring an applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

### Supervisory Assignment, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the students and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the appointment of the permanent supervisor.

## Research Proposal Requirements

All PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Candidacy

To enter candidacy, students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at:

<https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the MDBC program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

The Master of Biomedical Technology is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence. All students are considered full-time.

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The Master of Biomedical Technology Graduate Program and the Haskayne School of Business offer a **Combined M.** Contact the Graduate Science Education Office for further information.

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Location: Health Sciences Centre, Room G341A

For prospective students: <mailto:gseadmissions@ucalgary.ca>

For current students: <mailto:mbtgrad@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/programs/biomedical-technology>

## Admissions

### Program Admissions Information

See the Future Students website at <http://www.ucalgary.ca/future-students/graduate/explore-programs/biomedical-technology-master-biomedical-technology-course-based>.

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In addition to the Faculty of Graduate Studies and Cumming School of Medicine requirements, the program requires:

## Qualifications

- Normally, a four-year BSc degree in biological sciences or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- A current curriculum vitae.
- A Vision Statement (no more than one page in length) outlining career goals, and how the MBT program will help to achieve them.

## Suggested Preparatory Courses

Genetics ([BIOL311 Principles of Genetics](#) or equivalent), Cellular and Molecular Biology ([BIOL331 Introduction to CMMB](#) or equivalent), Biochemistry or macro molecules ([BCEM393 Introduction to Biochemistry](#) or equivalent), and senior-level course work in at least two of the following subject areas: microbiology, immunology, pharmacology and/or physiology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the program requires:

a) 31 units of courses:

##### Enroll in the following Course Sets:

- Master of Biomedical Technology Courses

b) 6-unit practicum [MDBT670 Practicum in Biomedical Techno](#) (runs over Spring and Summer)

It is required that MDBT students will successfully complete all Fall and Winter courses prior to beginning their practicum.

#### Additional Comments:

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Advanced Credit

In consultation with the Graduate Program Director, [Advanced Credit](#) may be requested in accordance with Faculty of

Graduate Studies regulations. Applicants must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Credit for Undergraduate Courses

Credit will not be given for undergraduate-level courses.

## Time Limit

The program is completed in one year on a full-time basis.

## Supervisory Assignments

The Graduate Program Director will serve as advisor for all newly admitted students. In the MBT program, there is no requirement for students to have a supervisor.

## Overview

### General Program Information

#### Specializations:

- **BioStatist**
- Community Rehabilitation and Disability Studies
- Epidemiology
- Healthcare Epidemiology
- Clinical Epidemiology
- Health Economics
- Health Services Research
- Medical Education
- Population/Public Health

Within the thesis-based programs, the student must select a specialization from the list above.

Descriptions of each specialization and its requirements are found on the website at:

<http://cumming.ucalgary.ca/gse/programs/community-health-sciences>.

### Part-time/Full-time Study

There is a part-time option for students in the thesis-based degree programs providing that they obtain permission from the department and the Graduate Program Director.

Location: Health Sciences Centre, Room G341A

Email address: <mailto:chsgrad@ucalgary.ca>

Web page URL: [GSE Community Health Sciences | Cumming School of Medicine | University of Calgary \(ucalgary.ca\)](http://cumming.ucalgary.ca/gse/programs/community-health-sciences)

## Admissions

### Program Admissions Information

The deadlines for the submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/community-health-sciences-master-science-thesis-based>.

Students applying to the MD/MSc or MD/PhD program must apply individually to each program and complete a supplementary application for the Leaders in Medicine Program.

In addition to the Cumming School of Medicine requirements, the program requires:

- Minimum admission grade point average of 3.30 on a four-point scale over the last two years consisting of a minimum of 60 units.
- A statement outlining the applicant's interest and reasons for choosing the program.
- A letter from a faculty member of our Department indicating interest in supervising the applicant.
- Work and/or research experience in the health system, community rehabilitation and/or disability studies is highly recommended.
- Two letters of reference. Note: When choosing your references, it is preferred that you choose individuals, other than your supervisor.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

Complete ONE of the specialization requirement sets below:

**Complete at least 1 of the following requirement sets:**

- MSc, Community Health Sciences, Clinical Epidemiology
- MSc, Community Health Sciences, Community Rehabilitation and Disability Studies
- MSc, Community Health Sciences, Epidemiology
- MSc, Community Health Sciences, Health Economics

- MSc, Community Health Sciences, Health Services Research
- MSc, Community Health Sciences, Healthcare Epidemiology
- MSc, Community Health Sciences, Medical Education
- MSc, Community Health Sciences, Population and Public Health

For MSc, Community Health Sciences, Biostatistics, see [BioStatist](#).

### Additional Comments:

Each student is expected to attend and participate in the regularly scheduled [CHS-OIPH seminars](#).

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Open Studies Students may take courses before applying for admission to a graduate program. However, these students are not eligible to enrol in the Block Week course: Introduction to Community Health Sciences ([MDCH600 Intro to Comm Health Sciences](#)) or Health Research Methods ([MDCH681 Health Research Methods](#)). A maximum of 6 units, completed at a satisfactory level (minimum "B+") and within three years of admission to the graduate program, may be credited toward a student's degree requirements. Completing courses does not guarantee admission into the program.

## Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School Medicine will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

The program does not normally give credit for undergraduate courses.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two years.

### Supervisory Assignments, Research Proposal and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of a supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

The supervisory committee must approve the formal Thesis Proposal prior to students commencing their research. MSc research proposals should be submitted and approved within 12 months of the start of program.

After approval by the student's supervisory committee and before commencement of data collection, all proposals are submitted to the Conjoint Health Research Ethics Board for ethical review, and some are submitted to the appropriate committee for impact review.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements, the program requires:

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations in MDCH will consist of a 10-minute presentation by the candidate followed by an open oral examination. No public seminar is expected.

#### *Scheduling of the Examination*

All members of the supervisory committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

## Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Students will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy found at <https://cumming.ucalgary.ca/gse/future-students/graduate-admissions>.

Funding opportunities can be found at <http://wcm.ucalgary.ca/gse/programs/community-health-sciences>.

## Overview

General Program Information

Specializations:

## UCalgary

- **BioStatist**
- Community Rehabilitation and Disability Studies
- Epidemiology
- Healthcare Epidemiology
- Clinical Epidemiology
- Health Economics
- Health Services Research
- Medical Education
- Population/Public Health

Within the thesis-based programs, the student must select a specialization from the list above.

Descriptions of each specialization and its requirements are found on the website at: <http://cumming.ucalgary.ca/gse/programs/community-health-sciences>.

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### Part-time/Full-time Study

There is a part-time option for students in the thesis-based degree programs providing that they obtain permission from the department and the Graduate Program Director.

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Location: Health Sciences Centre, Room G341A

Email address: <mailto:chsgrad@ucalgary.ca>

Web page URL: [GSE Community Health Sciences | Cumming School of Medicine | University of Calgary \(ucalgary.ca\)](http://cumming.ucalgary.ca/gse/programs/community-health-sciences)

## Admissions

### Program Admissions Information

The deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/community-health-sciences-doctor-philosophy-thesis-based>.

Students applying to the MD/MSc or MD/PhD program must apply individually to each program and complete a supplementary application for the Leaders in Medicine Program.

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In addition to the Cumming School of Medicine requirements, the program requires:

- Minimum admission grade point average of 3.30 on a four-point scale over the last two years consisting of a minimum of 60 units.
  - A statement outlining the applicant's interest and reasons for choosing the program.
  - A letter from a faculty member of our Department indicating interest in supervising the applicant.
  - Work and/or research experience in the health system, community rehabilitation and/or disability studies is highly recommended.
  - Two letters of reference. Note: When choosing your references, it is preferred that you choose individuals, other than your supervisor.
- 

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or

- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

Complete ONE of the specialization requirement sets below:

**Complete at least 1 of the following requirement sets:**

- MSc, Community Health Sciences, Community Rehabilitation and Disability Studies
- MSc, Community Health Sciences, Epidemiology
- MSc, Community Health Sciences, Health Economics
- MSc, Community Health Sciences, Health Services Research
- MSc, Community Health Sciences, Medical Education
- MSc, Community Health Sciences, Population and Public Health

For PhD, Community Health Sciences, Biostatistics, see [BioStatist](#).

#### Additional Comments:

Each student is expected to attend and participate in the regularly scheduled [CHS-OIPH seminars](#).

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

### Advanced Credit

Open Studies Students may take courses before applying for admission to a graduate program. However, these students are not eligible to enrol in the Block Week course: Introduction to Community Health Sciences ([MDCH600 Intro to Comm Health Sciences](#)) or Health Research Methods ([MDCH681 Health Research Methods](#)). A maximum of 6 units, completed at a satisfactory level (minimum "B+") and within three years of admission to the graduate program, may be credited toward a student's degree requirements. Completing courses does not guarantee admission into the program.

### Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School of Medicine will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

The program does not normally give credit for undergraduate courses.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a doctoral program is six years. Expected completion time is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

### Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of a supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

### Research Proposal Requirements

The supervisory committee must approve the formal Thesis Proposal prior to students commencing their research. MSc research proposals should be submitted and approved within 12 months of the start of program.

For PhD students, approval takes place via a supervisory committee meeting, no later than 25 months from initial registration. Details about the thesis proposal requirements and approval meeting are provided in the CHS Candidacy Policy Effective September 2018, at <https://cumming.ucalgary.ca/gse/current-students/student-forms>.

After approval by the student's supervisory committee and before commencement of data collection, all proposals are submitted to the Conjoint Health Research Ethics Board for ethical review, and some are submitted to the appropriate committee for impact review.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements, the program requires:

### Candidacy

To enter candidacy, doctoral students must (1) successfully complete all required courses, (2) attend Research Integrity Day, (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the written thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete their written Field of Study examination and an Oral Field of Study Examination. For complete details of the candidacy requirements, see CHS Candidacy Policy Effective September 2018: [https://cumming.ucalgary.ca/sites/default/files/teams/13/programs/mdch-candidacy-regulations\\_effective-sept-2018.pdf](https://cumming.ucalgary.ca/sites/default/files/teams/13/programs/mdch-candidacy-regulations_effective-sept-2018.pdf).

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All PhD examinations in MDCH will consist of a 10-minute presentation by the candidate followed by an open oral examination. No public seminar is expected.

#### *Scheduling of the Examination*

All members of the supervisory committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy found at <https://cumming.ucalgary.ca/gse/future-students/graduate-admissions>.

Funding opportunities can be found at <http://wcm.ucalgary.ca/gse/programs/community-health-sciences>.

## Overview

### General Program Information

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

Location: Health Sciences Centre, Room 341A

Email address: <mailto:cvrgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/cardiovascular-respiratory-sciences>

## Admissions

### Program Admissions Information

Deadlines for submission of required documents are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/cardiovascular-respiratory-sciences-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine [requirements](#), the program requires:

## Qualifications

- Four year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants to the MSc program are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of cardiovascular and respiratory sciences.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The amount of course work to be undertaken is determined by the student's supervisory committee; however, it also must meet the minimum requirements of the program.

The minimum academic course requirement is normally 6 units. At least one course (3 units) should be from the list of [recommended MDCV graduate courses](#).

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ualgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599, providing that the course is recommended by the supervisory committee and a written approval is received by the program director.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director. The supervisor will be a member of one of the recognized research institutes within the Cumming School of Medicine (e.g. Libin Cardiovascular Institute, Hotchkiss Brain Institute, Snyder Chronic Disease Institute, etc.).

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

## Required Examinations

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the supervisory committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/faculty-and-staff/student-payments>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see **Awards and Financial Assistance** section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

Location: Health Sciences Centre, Room 341A

Email address: <mailto:cvrgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/cardiovascular-respiratory-sciences>

## Admissions

### Program Admissions Information

Deadlines for submission of required documents are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/cardiovascular-respiratory-sciences-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine **requirements**, the program requires:

## Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work if applicable.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta

Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Doctoral applicants are required to arrange for the submission of three reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of cardiovascular and respiratory sciences.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The amount of course work to be undertaken is determined by the student's supervisory committee; however, it also must meet the minimum requirements of the program.

The minimum academic course requirement is normally 9 units. At least one course (3 units) should be from the list of [recommended MDCV graduate courses](#).

Students holding a completed BSc degree entering the PhD program are required to successfully complete a minimum of 9 units.

Students holding a completed MSc degree in the same area of study entering the PhD program are required to complete a minimum of 3 units, provided that a minimum of 6 units were completed during their prior MSc program. This topic should be discussed by the student's supervisory committee, which should then provide a recommendation to the graduate program director regarding the student's graduate course work.

Students transferring from the MSc program to the PhD program are required to complete a minimum of 3 additional units.

Students holding a completed MSc degree in an unrelated field of studies entering the PhD program are required to complete a minimum of 9 units unless otherwise agreed by the student's supervisory committee and approved by the graduate program director.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring an applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599, providing that the course is recommended by the supervisory committee and a written approval is received by the program director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director. The supervisor will be a member of one of the recognized research institutes within the Cumming School of Medicine (e.g. Libin Cardiovascular Institute, Hotchkiss Brain Institute, Snyder Chronic Disease Institute, etc.).

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at:

<http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the supervisory committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/faculty-and-staff/student-payments>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

### Specializations:

- Physiology
- Biochemistry

## UCalgary

- Molecular Biology
  - Pharmacology
  - Immunology
  - Immunopharmacology
  - Microbiology
  - Nutrition
  - Parasitology
  - Pathology
  - Epidemiology
  - Host-Pathogen Interactions
- 

Location: Health Sciences Centre, Room G345A

Email address: <mailto:gigrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/gastrointestinal-sciences-msc-thesis>

Students applying to the MD/Masters or MD/PhD program must apply individually to each program and complete a supplementary application to the Leaders in Medicine program.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
  - A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- 

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [\*\*Academic Communication Certificate\*\*](#) with a minimum grade of "A-" in each course.

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## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta

Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of gastrointestinal sciences.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Department requires:

- The minimum academic course requirement is normally 6 units, which is met by:
- the satisfactory completion of Gastrointestinal Physiology (Medical Science 637.01) in the first year, and
- the satisfactory completion of another 3-unit graduate-level course in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Exceptions require the approval of the Graduate Program Director.

To qualify for an approved specialization, the supervisor and/or at least one member of the supervisory committee should have expertise in that specialization and the research in the thesis should be largely based in that discipline. In addition, the student should complete graduate course work deemed relevant/required by the supervisor and the supervisory committee for the student to be competent in the specialization.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be set up no later than 3 months after the student's first registration in the program.

### Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

### Required Examinations

#### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see **Thesis Examinations**).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc

student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

All students are considered full-time. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Program Director.

### **Specializations:**

- Physiology
- Biochemistry
- Molecular Biology
- Pharmacology
- Immunology
- Immunopharmacology
- Microbiology
- Nutrition
- Parasitology
- Pathology
- Epidemiology
- Host-Pathogen Interactions

Location: Health Sciences Centre, Room G345A

Email address: <mailto:gigrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <http://www.ucalgary.ca/future-students/graduate/explore-programs/gastrointestinal-sciences-doctor-philosophy-thesis-based>.

Students applying to the MD/Masters or MD/PhD program must apply individually to each program and complete a supplementary application to the Leaders in Medicine program.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

### Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four-year BSc degree or equivalent.
  - A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work, if applicable.
- 

### English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

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### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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### Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of gastrointestinal sciences.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Department requires:

The minimum academic course requirement is normally 9 units, which is met by:

- the satisfactory completion of Gastrointestinal Physiology ([MDSC637.01 Organization Function GI Tract](#)) in the first year, and
- the satisfactory completion of two additional 3-unit graduate-level courses in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Exceptions require the approval of the Graduate Program Director.

To qualify for an approved specialization, the supervisor and/or at least one member of the supervisory committee should have expertise in that specialization and the research in the thesis should be largely based in that discipline. In addition, the student should complete graduate course work deemed relevant/required by the supervisor and the supervisory committee for the student to be competent in the specialization.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

#### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

#### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

#### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be set up no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see **Thesis Examinations**).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

## *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see **Awards and Financial Assistance** section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

#### **Specialization:**

- Host-Pathogen Interactions

Faculty members are affiliated with the Cumming School of Medicine and the Faculties of Science and Veterinary Medicine.

The Immunology Graduate Program is offered in collaboration with the above faculties, and the curriculum has been designed for students with undergraduate or MSc degrees in those faculties. Background experience, qualifications, and areas of interest of applicants will be taken into account at the time of admission.

Students in the MSc and PhD degree programs are normally considered full-time.

Location: Health Sciences Centre, Room G345A

Email address: <mailto:imgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## **Admissions**

### **Program Admissions Information**

Application deadlines are available on the Future Students webpages: <http://www.ucalgary.ca/future-students/graduate/explore-programs/immunology-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## **Qualifications**

- Four-year BSc degree or equivalent.

- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

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### English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

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### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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### Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- An undergraduate course in immunology (Cellular, Molecular and Microbial Biology 527 or equivalent). It will be possible for a student to take Medical Science 640 during the first year of their program if they do not have an appropriate prerequisite course.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of immunology.

### Program Details

#### Simple Requisites

##### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies **requirements** and Cumming School of Medicine requirements, the Immunology Graduate Program requires:

The minimum academic course requirement is normally 6 units, which is met by:

- the satisfactory completion of Cellular and Molecular Immunology ([MDSC639.02 Cellular & Molecular Immunology](#)) and Inflammation ([MDSC639.04 Inflammation](#)) in the first year, and
- the satisfactory completion of another 3-unit graduate-level course in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Each student is required to participate regularly in the Synder Institute graduate program seminar series and present at least one work in progress seminar per year.

Contributions to journals, relevant journal clubs and/or seminars are an expectation. Visit the program [website](#).

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ualgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make request for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

#### Supervisory Assignments, Research Proposal and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

## Required Examinations

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the MDCV program director and the Faculty of Graduate Studies.

## Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

#### Specialization:

- Host-Pathogen Interactions

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Faculty members are affiliated with the Cumming School of Medicine and the Faculties of Science and Veterinary Medicine.

The Immunology Graduate Program is offered in collaboration with the above faculties, and the curriculum has been designed for students with undergraduate or MSc degrees in those faculties. Background experience, qualifications, and areas of interest of applicants will be taken into account at the time of admission.

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Students in the MSc and PhD degree programs are normally considered full-time.

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Location: Health Sciences Centre, Room G345A

Email address: <mailto:imgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <http://www.ucalgary.ca/future-students/graduate/explore-programs/immunology-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

### Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work, if applicable.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates

to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

### Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- An undergraduate course in immunology (Cellular, Molecular and Microbial Biology 527 or equivalent). It will be possible for a student to take Medical Science 640 during the first year of their program if they do not have an appropriate prerequisite course.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of immunology.

### Program Details

#### Simple Requisites

##### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Immunology Graduate Program requires:

The minimum academic course requirement is normally 9 units, which is met by:

- the satisfactory completion of Cellular and Molecular Immunology ([MDSC639.02 Cellular & Molecular Immunology](#)) and Inflammation ([MDSC639.04 Inflammation](#)) in the first year, and
- the satisfactory completion of another 3-unit graduate-level course in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Exceptions require the approval of the Graduate Program Director.

Each student is required to participate regularly in the Synder Institute graduate program seminar series and present at least one work in progress seminar per year.

Contributions to journals, relevant journal clubs and/or seminars are an expectation. Visit the program [website](#).

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must make request for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

### Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Required Examinations

## Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at:

<http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

Location: Health Sciences Centre, Room G345A

Email address: <mailto:midgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <http://www.ucalgary.ca/future-students/graduate/explore-programs/microbiology-infectious-disease-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of microbiology and infectious diseases.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies **requirements** and Cumming School of Medicine requirements, the Department requires:

The minimum academic course requirement is normally 6 units at the graduate level in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the program director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

**Additional Comments:**

## **Supervisory Assignments**

The selection of a graduate supervisor must be by mutual agreement between the student and the supervisor at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## **Research Proposal Requirements**

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program.

## **Required Examinations**

### **Thesis Examination**

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

Location: Health Sciences Centre, Room G345A

Email address: <mailto:midgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/gi-im-mid>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <http://ucalgary.ca/future-students/graduate/explore-programs/microbiology-infectious-disease-doctor-philosophy-thesis-based>.

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In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

### Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work, if applicable.

### English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [\*\*Academic Communication Certificate\*\*](#) with a minimum grade of "A-" in each course.

### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

### Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of microbiology and infectious diseases.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Department requires:

The minimum academic course requirement is normally 9 units at the graduate level in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

#### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

#### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

#### Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the program director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the supervisor at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see **Awards and Financial Assistance** section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

Students in the MSc are normally considered full-time.

### Specializations:

- [Comp Neuro](#)
- [Medical Im](#)

Location: Health Sciences Centre, Room G347C

Email address: <mailto:neurosci@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/about/programs/neuroscience>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/neuroscience-msc-thesis-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

### Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of neuroscience.

### Program Details

#### Simple Requisites

##### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 6 units which is met by the satisfactory completion of Cellular, Molecular and Developmental Neuroscience ([MDSC619.01 Cellular, Molecular Neuroscience](#)), and Systems Neuroscience and Neuropathology ([MDSC619.02 Sys Neuroscience & Neuropath](#)) in the first year.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

### Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <https://www.cihr-irsc-igh-isfh.ca/> within the first year of their program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this

document must be submitted within 12 months after initial registration in the program.

## Required Examinations

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor) plus an Internal/External Examiner, who may be internal to the student's home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

Students in the PhD program are normally considered full-time.

### Specializations:

- [Comp Neuro](#)
- [Medical Im](#)

Location: Health Sciences Centre, Room G341A

Email address: <mailto:neurosci@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/programs/neuroscience>

## Admissions

# UCalgary

## ADMISSIONS

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/neuroscience-phd>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine [requirements](#), the program requires:

### Qualifications

- MSc degree, or relevant master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four-year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work, if applicable.

### English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

### Additional Requirements

- Applicants are required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria does not guarantee acceptance into the program. Applications are ranked according to academic excellence, prior research experience and commitment to the study of neuroscience.

### Program Details

#### Simple Requisites

Program/Course Requirements
Type

## Completion Requirement

### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 9 units which is met by:

- the satisfactory completion of Cellular, Molecular and Developmental Neuroscience ([MDSC619.01 Cellular, Molecular Neuroscience](#)) and Systems Neuroscience and Neuropathology ([MDSC619.02 Sys Neuroscience & Neuropath](#)) in the first year, and
- the satisfactory completion of another 3-unit graduate-level course in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <https://www.cihr-irsc-igh-isfh.ca/> within the first year of their program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Applicants must make requests for [Advanced Credit](#) as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of the application to the program and approved by the Graduate Program Director. Supervisors must commit to supporting the student for the duration of their graduate studies, before admission is recommended.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of supervisor and co-supervisor (if applicable), plus two additional members, must be in place no later than 3 months after the student's first registration in the program.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For additional information about the PhD research proposal, refer to: <http://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of

Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see **Awards and Financial Assistance** section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

This degree is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS) and allows graduates to qualify for the American Society of Clinical Pathology (ASCP) and the Canadian Certification Council of Pathologists' Assistants (CCCPA) examinations.

This is a continuous program with no scheduled break. Students who do not enrol in courses for a period exceeding 4 months will be withdrawn from the program for failure to register unless they are on an approved **Leave of Absence**.

All students are considered full-time. Part-time status may be considered and must be approved by the Graduate Program Director.

Location: Health Sciences Centre, Graduate Science Education, G345A

For prospective students: <mailto:gseadmissions@ucalgary.ca>

For current students: <mailto:mpath@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/pathologists-assistant>

## Admissions

### Program Admissions Information

For application deadline, see the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/pathologists-assistant-master-pathologists-assistant-course-based>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Four-year BSc degree in biological sciences, or its equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or

- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to submit two reference letters. References must follow the guidelines posted on the program's website for prospective students.
- A current Curriculum Vitae (CV).
- Students in the program will be required to complete a police background and vulnerable sector check before their practicum placements in the second year.

## Suggested Preparatory Courses

Principles of Genetics ([BIOL311 Principles of Genetics](#) or equivalent), Introduction to Cellular and Molecular Biology ([BIOL331 Introduction to CMMB](#) or equivalent), Introduction to Biochemistry ([BCEM393 Introduction to Biochemistry](#) or equivalent), and senior-level course work in at least two of the following subject areas: anatomy, physiology, pathology, microbiology, molecular biology, immunology, clinical laboratory medicine and histology.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the program requires all Pathologists' Assistant students to successfully complete 45 units:

##### Enroll in the following Course Sets:

- **Medical Pathologist's Assistant Required Courses**

It is required that all PA students will successfully complete (minimum "B-") all Fall and Winter courses prior to beginning their practicum.

In addition to the courses listed, students must complete an online medical terminology course.

#### Additional Comments:

### Additional Requirements

Police background check and vulnerable service search are required 90 days before starting the second year practicum.

Ability to perform the Essential Functions of a Pathologists' Assistant, as described in the [Pathologists' Assistant Student Handbook](#).

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

In consultation with the Graduate Program Director, [Advanced Credit](#) may be requested in accordance with Faculty of Graduate Studies regulations (see Advanced Credit). Applicants must make advanced credit requests as part of the admission process. The requests will be reviewed by the Graduate Program Director and Medical Director and decisions will be made on a case-by-case basis. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Course Exemption

Course exemptions are reviewed by the Graduate Program Director and Medical Director and decision are made on a case-by-case basis.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

With the exception of Medical Science 515, credit will not be given for courses taken below the 600-level.

## Time Limit

It is highly recommended that the program be completed in two years on a full-time basis. It may also be completed on a part-time basis with the Director's approval.

## Supervisory Assignments

The Graduate Program Director will serve as interim advisor for all newly admitted students. In the course-based Pathologists' Assistant program, there is no requirement for students to have a supervisor. We do recommend, however, that students have a mentor within the Department of Pathology and Laboratory Medicine.

### Program Fee

A program fee applies to this program. See [Graduate Program-Specific Tuition and Fees](#).

## Overview

### General Program Information

Each graduate credential in Precision Health is a cohort-based, 12 month program.

### Specializations:

- Precision Medicine
- Quality and Safety Leadership
- Health Professional Education Leadership
- Innovation and Entrepreneurship

The Precision Health program is not designed for students to complete more than one specialization at a time.

### Laddered pathway from the Graduate Certificate to the Graduate Diploma to the Master of Precision Health

Students who complete the Graduate Certificate in Precision Health in any specialization may receive laddering credit for the 12 units of coursework completed in that certificate if they are subsequently accepted into the [GDIP Preci](#) program within 5 years of beginning the Graduate Certificate.

Students who complete the Graduate Diploma in Precision Health may receive laddering credit for the 12 units of coursework completed in the diploma program and the 12 units of coursework completed in the certificate if they are subsequently accepted into the [Master of](#) Program within 5 years of beginning the first credential in the laddering process.

Location: Health Sciences Centre, Room G349C

Fax: 403.210.8109

Email address: <mailto:prehgrad@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/programs/precision-health-program>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/precision-health-certificate>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

### Qualifications

- A four-year baccalaureate degree from a recognized institution in a health-related discipline.
- A minimum admission grade point average of 3.30 on a four-point scale or equivalent calculated on the last 60 units completed.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- A current curriculum vitae.
- Applicants to the Graduate Certificate and Graduate Diploma program must provide a vision statement (no more than one page in length, single space, maximum 500 words) outlining career goals, and how the Precision Health program will help to achieve them.
- Applicants to the Master's program are also required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.

Meeting the minimum admission criteria above does not guarantee acceptance into the program.

*Note: As per Section A.1 of the University of Calgary's Graduate Calendar, in exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to this program. The candidate must provide evidence demonstrating the potential to successfully undertake the certificate program. Such candidates may also be required to participate in an in-person interview with the Associate Dean, Graduate Science Education. In all such cases, the decision whether to admit rests with the Dean of the Faculty of Graduate Studies.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Certificate requires 12 units of coursework within one of the specializations:

**Complete ANY of the following Course Sets:**

- Precision Health GC, Precision Medicine

**OR** Precision Health GC, Quality and Safety Leadership  
**OR** Precision Health GC, Health Professional Education Leadership  
**OR** Precision Health GC, Innovations and Entrepreneurship

**Additional Comments:**

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

See [Advanced Credit](#).

## Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School Medicine will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be given for undergraduate-level courses.

## Time Limit

The expected completion time for each laddering credential (Graduate Certificate, Graduate Diploma, Master's) is 12 months, with a maximum completion time for each credential of two years.

Note: Faculty of Graduate Studies requirements state the maximum time limit for completion of a course-based Master's degree is six years; therefore, students must complete all steps in the laddering process (Graduate Certificate, Graduate Diploma, and Master's) within six years of beginning the first step.

## Supervisory Assignments

The Graduate Program Director will serve as advisor for all newly admitted students. In the MDPR program, there is no requirement for students to have a supervisor.

### Financial Assistance

**Type**

## Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see <https://cumming.ucalgary.ca/gse/current-students/scholarships> and the [Awards and Financial Assistance](#) section of this calendar.

## Overview

### General Program Information

Each graduate credential in Precision Health is a cohort-based, 12 month program.

### Specializations:

- Precision Medicine
- Quality and Safety Leadership
- Health Professional Education Leadership
- Innovation and Entrepreneurship

The Precision Health program is not designed for students to complete more than one specialization at a time.

### Laddered pathway from the Graduate Certificate to the Graduate Diploma to the Master of Precision Health

Students who complete the [GCERT Prec](#) in any specialization may receive laddering credit for the 12 units of coursework completed in that certificate if they are subsequently accepted into the Graduate Diploma in Precision Health program within 5 years of beginning the Graduate Certificate.

Students who complete the Graduate Diploma in Precision Health may receive laddering credit for the 12 units of coursework completed in the diploma program and the 12 units of coursework completed in the certificate if they are subsequently accepted into the [Master of](#) Program within 5 years of beginning the first credential in the laddering process.

Location: Health Sciences Centre, Room G349C

Fax: 403.210.8109

Email address: <mailto:prehgrad@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/gse/programs/precision-health-program>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/precision-health-diploma>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

## Qualifications

- Completion of the Graduate Certificate in Precision Health in student's area of specialization with a GPA of 3.30 or higher.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

## UCalgary

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- A current curriculum vitae.
- Applicants to the Graduate Certificate and Graduate Diploma program must provide a vision statement (no more than one page in length, single space, maximum 500 words) outlining career goals, and how the Precision Health program will help to achieve them.
- Applicants to the Master's program are also required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.

Meeting the minimum admission criteria above does not guarantee acceptance into the program.

*Note: As per Section A.1 of the University of Calgary's Graduate Calendar, in exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to this program. The candidate must provide evidence demonstrating the potential to successfully undertake the certificate program. Such candidates may also be required to participate in an in-person interview with the Associate Dean, Graduate Science Education. In all such cases, the decision whether to admit rests with the Dean of the Faculty of Graduate Studies.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Diploma requires 12 units of coursework consisting of:

##### Complete ALL of the following Course Sets:

- Precision Health GD

\*If MDPR 601 is already completed, choose a course from any [GCERT Prec](#) specialization.

In addition to the above 3 courses, choose one elective course from any [GCERT Prec](#) specialization.

**Additional Comments:**

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

See [Advanced Credit](#).

## Flexible Grade Option (CG Grade)

The Graduate programs in the Cumming School Medicine will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be given for undergraduate-level courses.

## Time Limit

The expected completion time for each laddering credential (Graduate Certificate, Graduate Diploma, Master's) is 12 months, with a maximum completion time for each credential of two years.

Note: Faculty of Graduate Studies requirements state the maximum time limit for completion of a course-based Master's degree is six years; therefore, students must complete all steps in the laddering process (Graduate Certificate, Graduate Diploma, and Master's) within six years of beginning the first step.

## Supervisory Assignments

The Graduate Program Director will serve as advisor for all newly admitted students. In the MDPR program, there is no requirement for students to have a supervisor.

### Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see <https://cumming.ucalgary.ca/gse/current-students/scholarships> and the **Awards and Financial Assistance** section of this

<https://cumming.ucalgary.ca/gse/current-students/graduate-study-and-the-graduate-and-master-of-precision-health-program/> calendar.

## Overview

### General Program Information

Each graduate credential in Precision Health is a cohort-based, 12 month program.

#### Specializations:

- Precision Medicine
- Quality and Safety Leadership
- Health Professional Education Leadership
- Innovation and Entrepreneurship

The Precision Health program is not designed for students to complete more than one specialization at a time.

#### Laddered pathway from the Graduate Certificate to the Graduate Diploma to the Master of Precision Health

Students who complete the **GCERT Prec** in any specialization may receive laddering credit for the 12 units of coursework completed in that certificate if they are subsequently accepted into the **GDIP Preci** program within 5 years of beginning the Graduate Certificate.

Students who complete the Graduate Diploma in Precision Health may receive laddering credit for the 12 units of coursework completed in the diploma program and the 12 units of coursework completed in the certificate if they are subsequently accepted into the Master of Precision Health Program within 5 years of beginning the first credential in the laddering process.

Location: Health Sciences Centre, Room G349C

Program number: 403.210.7051

Fax: 403.210.8109

Email address: [prehgrad@ucalgary.ca](mailto:prehgrad@ucalgary.ca)

Web page URL: <https://cumming.ucalgary.ca/gse/programs/precision-health-program>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpages: <https://grad.ucalgary.ca/future-students/explore-programs/precision-health-master>.

In addition to the Faculty of Graduate Studies and the Cumming School of Medicine requirements, the program requires:

### Qualifications

- Completion of the Graduate Diploma in Precision Health with a GPA of 3.30 or higher.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or

- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- A current curriculum vitae.
- Applicants to the Graduate Certificate and Graduate Diploma program must provide a vision statement (no more than one page in length, single space, maximum 500 words) outlining career goals, and how the Precision Health program will help to achieve them.
- Applicants to the Master's program are also required to arrange for the submission of two reference letters. References must follow the guidelines posted on the program's website for prospective students.

Meeting the minimum admission criteria above does not guarantee acceptance into the program.

*Note: As per Section A.1 of the University of Calgary's Graduate Calendar, in exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to this program. The candidate must provide evidence demonstrating the potential to successfully undertake the certificate program. Such candidates may also be required to participate in an in-person interview with the Associate Dean, Graduate Science Education. In all such cases, the decision whether to admit rests with the Dean of the Faculty of Graduate Studies.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the Master's requires 9 units of coursework consisting of:

#### Complete ALL of the following Course Sets:

- Master of Precision Health

*Precision Medicine students take Medical Precision Health 619*

*Quality and Safety Leadership students take Medical Precision Health 629*

*Health Professional Education Leadership students take Medical Precision Health 639*

*Innovation and Entrepreneurship students take Medical Precision Health 649*

**Additional Comments:**

### **Research Integrity Day**

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

### **Sex and Gender Training Module**

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

#### **Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

See [Advanced Credit](#).

### **Flexible Grade Option (CG Grade)**

The Graduate programs in the Cumming School Medicine will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Cumming School of Medicine.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

### **Credit for Undergraduate Courses**

Credit will not be given for undergraduate-level courses.

### **Time Limit**

The expected completion time for each laddering credential (Graduate Certificate, Graduate Diploma, Master's) is 12 months, with a maximum completion time for each credential of two years.

Note: Faculty of Graduate Studies requirements state the maximum time limit for completion of a course-based Master's degree is six years; therefore, students must complete all steps in the laddering process (Graduate Certificate, Graduate Diploma, and Master's) within six years of beginning the first step.

### **Supervisory Assignments**

The Graduate Program Director will serve as advisor for all newly admitted students. In the MDPR program, there is no requirement for students to have a supervisor.

#### **Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see <https://cumming.ucalgary.ca/gse/current-students/scholarships> and the [Awards and Financial Assistance](#) section of this calendar.

## Overview

### General Program Information

The University of Calgary Master of Physician Assistant Studies (MPAS) program is an intensive 93-unit course-based program delivered full-time over two years.

Location: G204 Health Sciences Centre

Email address: <mailto:mpas@ucalgary.ca>

Web Page: [Master of Physician Assistant Studies | Cumming School of Medicine | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs>.

Applicants will move through a multi-stage admission process.

Applications and all supporting documents will be submitted at <https://grad.ucalgary.ca/future-students/how-apply>. All application materials will be forwarded to the MPAS program office for administrative review as well as evaluation and ranking by the MPAS Program Admissions Committee, which is made up of internal and external reviewers.

Short-listed applicants will be required to participate in an interview.

Meeting the minimum admission criteria below does not guarantee acceptance into the program. All applicants with complete applications will be ranked according to evidence from reference letters, personal essays, experiences described in the application, Casper score, and GPA.

In addition to the Faculty of Graduate Studies [admission requirements](#) and Cumming School of Medicine requirements, the program requires:

#### a) Qualifications

- Completion of a four-year baccalaureate degree from an institution recognized by the University of Calgary. Students in their final year of study in a baccalaureate degree program may apply.
- A minimum admission grade point average of 3.20 (on the University of Calgary four-point system); this is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- Canadian citizenship, permanent residency, or refugee status in Canada.
- Applicants must have prior client-facing health care experience. This may include direct hands-on patient care experience in a clinical setting, clinical placements in healthcare education programs, or volunteer experience. Applicants will be required to list the number of hours, location of experience, and role, as well as provide a verifier name and phone number.

#### b) Preferred Criteria

- Candidates who have shown a commitment to service in their communities. Applicants will be required to list the number of hours, location of experience, and role, as well as provide a verifier name and phone number.
- Alberta residents. Applicants will be considered Alberta residents if they meet one of the following criteria:

- Have been physically present in Alberta (or NWT, Yukon or Nunavut) on a day-to-day basis for 24 consecutive months at some point between their 15th birthday and the first day of classes (of the year for which they are applying).
- Have been on active duty for the 24 months prior to classes starting with the Canadian Armed Forces (not including members of the reserves) or the RCMP.

### c) English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum internet-based TOEFL score of 105 (with no section less than 20), or
- a minimum IELTS Academic version overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no sub-score below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or
- This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

### d) Immunizations

- All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.
- Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact the MPAS office for more information.

### e) Additional Requirements

- Two referees: Applicants will submit names and professional email addresses for referees in their online applications. Referees will receive an email invitation to provide references online. Recommendations will address the applicant's suitability for the program, professionalism, integrity, and motivation. Prior employers, professional colleagues, and academic advisors are acceptable references.
- Completion of the following coursework at the post-secondary level with a minimum grade of B (3.00 on a 4.00 scale or equivalent) in each of these courses:
  1. Minimum of 3.0 units of Human Anatomy
  2. Minimum of 3.0 units in Human Physiology
- Completion of the Computer-Based Assessment for Sampling Personal Characteristics (Casper®). Casper is an online evaluation that assesses non-cognitive skills and interpersonal characteristics that are important for success in the MPAS program. For more information about the Casper exam, including how to register, please visit <https://acuityinsights.app/casper/>.
- Indigenous Education Requirements: We recognize the importance of building knowledge and skills for future Physicians Assistants to work with Indigenous peoples in safe ways. Baseline knowledge is critically important and as such, applicants admitted into the program must complete an Indigenous education requirement which can be met in one of the following ways:
  - Completion of the Indigenous Canada MOOC (online). Completion should be evidenced by certificate or user screenshot; or
  - University of Calgary Indigenous Relations Training Program (in-person or online). Completion should be evidenced by certificate; or
  - Successful completion of a minimum 3-unit course in Indigenous studies from a post-secondary institution as evidenced on an official transcript. If the content of the course is not clearly evidenced by a transcript, students may be required to provide a copy of the course outline. (Examples of University of Calgary courses include: **INDG201 Intro to Indigenous Studies**, **INDG303 Indigenous Ways of Knowing**, **INDG343 Indigenous Law in Canada**, **INDG345 INDG Research Ethics Practice**, **INDG350 Introduction to Indigenous Art**, **INDG351 INDG Relational Thr'y Practice**, **INDG395 INDG Gender Sexuality Feminism**, **INDG397 Topic Cdn Indigenous Studies**, **INDG399 Topic Int'l**)

Indigenous Studies, INDG400 Directed Research Int'l INDG, INDG407 Comp Int'l Indg Communities, INDG415 Indigenous Ethics and Protocol, INDG492 (PSYC 492) Indigenous PSYC, INDG493 Animal-Human Relationships, INDG494 Int'l INDG Experiential Lrn'g, INDG495 Treaty Matters, Then and Now, INDG496 Métis Matters, Then and Now); or

- A degree, diploma, or certificate in Indigenous studies. Completion should be evidenced on an official transcript.

Admitted students will be required to provide proof of course completion by the start of the program.

- A personal statement (500 words maximum). Visit the Master of Physician Assistant Studies [website](#) for additional detail.

Short-listed applicants will be invited to participate in an online interview process. Invited applicants will be interviewed by members of faculty at the Cumming School of Medicine, community members, students and allied health members and will be ranked at the end of the interview process.

## Parallel Admission Pathways\*

### Equity Admissions Pathway

The Equity Admissions Pathway is designed to provide a platform for applicants from historically underrepresented communities to share their unique perspectives and experiences. Applicants who are members of equity deserving groups including, but not limited to, visible/racialized minorities, individuals with disabilities, LGBTQ2S+, those from rural and remote communities, and those facing socio-economic challenges are encouraged to apply through this pathway. Applicants choosing this pathway will be required to submit a 500-word essay describing: their identity, connections and affiliations with their identified community, reasons for wishing to become a physician assistant, discuss their vision of health service to their identified community and populations, and personal privileges and structural and historical barriers they have faced related to their identity.

### Indigenous Admissions Pathway

This pathway aligns with the university's Indigenous Strategy ii' taa'poh'to'p and is tailored to applicants who self-identify as First Nations, Métis, or Inuit. Applicants choosing this pathway will be required to submit a 500-word essay describing and discussing: their Indigenous identity, connections and affiliations with their Indigenous community, reasons for wishing to become a physician assistant, discuss their vision of health service to Indigenous populations, personal privileges and barriers related to their Indigenous identity, and how they can or will contribute to the health and flourishing of Indigenous populations.

*\*Applicants pursuing a parallel admission pathway are to submit one essay and are not required to complete the essay required for all other program applicants.*

Students in the Indigenous Admissions Pathway will be supported by the MPAS program office for pathway advising and the Writing Symbols Lodge for academic, personal, and cultural support.

Students in the Indigenous Admissions Pathway and Equity Admissions Pathway will also be referred to the [Support to Entry Program](#) (STEP) offered by the Precision Equity and Social Justice Office at Cumming School of Medicine. STEP is designed to address barriers that equity-deserving groups encounter when preparing to enter medicine and health science studies. STEP participants will receive support for the application (essay, interview) and/or be part of the mentorship program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

#### Type

#### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements, the program requires all Master of Physician Assistant students to successfully complete 93 units as follows:

#### Year One

Complete 45 units:

**Complete ALL of the following Course Sets:**

- **MPAS Year One Courses**

In special circumstances as an additional support for students, and with the approval of the Graduate Program Director, a student can take one of the Special Topics courses: [MDPS661 Spcl Tps Phys Asst Prct I](#), [MDPS662 Spcl Tps Phys Asst Prct II](#) or [MDPS663 Spcl Tps Phys Asst Prct III](#).

#### **Additional Requirements in Year One**

##### **Medical Terminology Module**

In the Fall term of year one of the program, students will be required to successfully complete a medical terminology module, which will be reflected as a milestone on students' transcripts. The module must be completed by the end of the Fall term for students to progress to the Winter term of year one.

#### **Year Two**

Complete 48 units:

**Complete ALL of the following Course Sets:**

- **MPAS Year Two Courses**

In special circumstances as an additional support for students, and with the approval of the Graduate Program Director, a student can take one of the Special Topics courses: [MDPS664 Spc Cln Tpcs Phys Asst Prct I](#), [MDPS665 Spc Cln Tpcs Phys Asst Prct II](#) or [MDPS667 SpcCln Tpcs Phys Asst Prct III](#).

**Additional Comments:**

#### **Additional Program Information**

##### **Type**

Completion Requirement

**Additional Comments:**

#### **Progression and Completion**

Assessment in the MPAS program is grounded in principles of competency-based education to ensure that students acquire and demonstrate the necessary competencies for professional practice as Physician Assistants.

All courses in the MPAS program are graded as CR (Completed Requirements) or F (Fail). Students must complete all courses with a CR in order to progress in the program.

All students will receive a progress report by the end of each term to reflect on their progress and identify potential areas for improvement. With the approval of the Graduate Program Director, students can choose to take a special topics course to support their studies. Additional fees will apply to the elective courses.

Students who receive a "Fail" grade in coursework or clinical rotations will be required to retake the same course. Additional fees will apply to the retake course(s). At the discretion of the Graduate Program Director, students who: a) receive a "Fail" grade in coursework or clinical rotations, and b) are not progressing academically, may be recommended to the Faculty of Graduate Studies for withdrawal from the program.

#### **Advanced Credit**

**Advanced Credit** will not be accepted for the Master of Physician Assistant Studies Program.

#### **Flexible Grade Option (CG Grade)**

The **Flexible Grade Option (CG Grade)** is not applicable within the MPAS program as all courses in the MPAS Program are graded as CR (Completed Requirements) or F (Fail).

## Time Limits

Expected completion time is two years (full-time). Maximum completion time is four years.

Requests for exceptions to this will be reviewed on a case-by-case basis. Leaves of Absence will be considered according to the Faculty of Graduate Studies Academic Regulations.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this calendar and the Graduate Awards Database.

## Overview

### General Program Information

Students in the MSc degree program are normally considered full-time.

### Specializations:

- Cancer Biology
- Critical Care Medicine
- Mountain Medicine and High-Altitude Physiology
- Joint Injury and Arthritis Research
- Biomechanics
- Biomedical Ethics
- Molecular & Medical Genetics
- Pathologists' Assistant (currently not accepting applications)
- Physiology
- Surgery (In co-operation with the Department of Surgery)
- Medical Im

Location: Health Sciences Centre, Room G341A

Email address: <mailto:medgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/medical-science>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/medical-science-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies and Cumming School of Medicine requirements, the Medical Science Graduate Program requires:

## Qualifications

- A four-year BSc degree or equivalent.

- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- A minimum 3.30 grade point average is also required in courses relevant to the proposed field of study.

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### English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or
- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

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### Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

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### Additional Requirements

- Applicants are required to arrange for the submission of two reference. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- For admission to the Master of Science program with a specialization in surgery, prior admission to the surgery residency program is required. Students will normally apply to the Master of Science program in the third year of the surgery residency program. For admission to the Surgeon Scientist Program, prior admission to the Medical Science Graduate Program is required.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria described above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of medical science.

### Program Details

#### Simple Requisites

##### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 6 units at the graduate level in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

## Journal Club and Work-in-Progress Seminars

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a thesis-based master's program is four years. Expected completion time is two and a half years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of the supervisor and co-supervisor (if applicable), plus two additional members must be in place no later than 3 months after the student's first registration in the program. Specializations in the MDSC program may have additional requirements.

## Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program. For additional information about the PhD research proposal, refer to: <https://www.ucalgary.ca/pubs/calendar/grad/current/wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

## Required Examinations

### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

All MSc examinations will consist of a 10-minute presentation by the candidate followed by an open oral examination. An MSc student can also elect to do a public seminar prior to the examination; in this case the 10-minute presentation at the beginning of examination can be eliminated.

Normally, students are required to give a separate public seminar prior to their oral examination. If, under extenuating circumstances, the public seminar cannot precede the oral examination, the student will give a 10-minute presentation summarizing the thesis at the start of the exam.

During these public seminars members of the examining committee will not be permitted to ask questions.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor and co-supervisor, if applicable) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

## Financial Assistance

### Type

Completion Requirement

**Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial

support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

Students in the PhD degree program are normally considered full-time.

### Specializations:

- Cancer Biology
- Critical Care Medicine
- Mountain Medicine and High-Altitude Physiology
- Joint Injury and Arthritis Research
- Biomechanics
- Biomedical Ethics
- Molecular & Medical Genetics
- Pathologists' Assistant (currently not accepting applications)
- Physiology
- Surgery (In co-operation with the Department of Surgery)
- **Medical Im**

Location: Health Sciences Centre, Room G341A

Email address: <mailto:medgrad@ucalgary.ca>

Web page URL: <http://cumming.ucalgary.ca/gse/programs/medical-science>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://www.ucalgary.ca/future-students/graduate/explore-programs/medical-science-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies and Cumming School of Medicine **requirements**, the Medical Science Graduate Program requires:

### Qualifications

- A MSc degree, or relevant Master's degree, recognized by the Faculty of Graduate Studies, or transfer from MSc program, or, in exceptional cases, four year BSc degree or equivalent.
- A minimum admission grade point average of 3.30 (on the University of Calgary four-point system; equivalent to a "B+") based on the last two years of the undergraduate degree consisting of a minimum of 60 units and any master's course work if applicable.
- A minimum 3.30 grade point average is also required in courses relevant to the proposed field of study.

## English Language Proficiency

For applicants required to provide proof of proficiency in the English language:

- a minimum TOEFL internet based score of 105 (with no section less than 20), or
- a minimum IELTS overall band score of 7.5 (with no individual band less than 6.0), or
- a CAEL overall score of 70 (with no section less than 70), or

- a minimum PTE academic version score of 75, or
- Duolingo with score of 145 (with no subscore below 125), or
- Cambridge C1 Advanced or Cambridge C2 Proficiency with score of 200, or

This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Immunizations

All students in graduate programs in the Cumming School of Medicine are required to complete a series of immunizations and diagnostic tests as outlined on the Student Immunization Worksheet.

Throughout their graduate program, students are required to ensure that immunizations are current and provide proof of updates to the Cumming School of Medicine. Failure to do so may result in students being removed from the program until such time as adequate proof has been provided. Please note that requirements may change during the program as determined by Alberta Health Services guidelines. Contact your Graduate Program Administrator for more information.

## Additional Requirements

- Applicants are required to arrange for the submission of two references. References must follow the guidelines posted on the program's website for prospective students.
- Students must have confirmed a faculty member willing to supervise their studies.
- For admission to the Master of Science program with a specialization in surgery, prior admission to the surgery residency program is required. Students will normally apply to the Master of Science program in the third year of the surgery residency program. For admission to the Surgeon Scientist Program, prior admission to the Medical Science Graduate Program is required.
- Endorsement by the Graduate Program Director that the applicant is acceptable and that adequate supervision in the proposed program is available.

Meeting the minimum admission criteria described above does not guarantee acceptance into the program. Applications will be ranked according to academic excellence, prior research experience and commitment to the study of medical science.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Cumming School of Medicine requirements:

The minimum academic course requirement is normally 9 units at the graduate level in an area that is pertinent to the student's thesis project and approved by the supervisor and supervisory committee.

Only one [MDSC755 Directed Study](#) or [MDGE755 Directed Studies](#) course can be taken for credit.

Exceptions require the approval of the Graduate Program Director.

## Journal Club and Work-in-Progress Seminars

Each student is required to participate regularly in journal club and work-in-progress seminar programs organized by the Department, Institute or Research Group to which the student and supervisor belong. The student will present at least one journal club seminar and one work-in-progress presentation per year.

## Research Integrity Day

Research Integrity Day is a Research Ethics session offered several times each year. All graduate students in the Cumming School of Medicine are required to attend Research Integrity Day in the first year of their program as part of their course requirements. See the Graduate Science Education <https://cumming.ucalgary.ca/gse/current-students/research-integrity-day> for details and to register for the Research Integrity Day session.

## Sex and Gender Training Module

The inclusion of Sex and Gender in Research programs is becoming more prominent. All graduate students in the Cumming School of Medicine are required to complete one of the CIHR sex and gender online training modules found at <http://www.discoversexandgender.ca/> within the first year of their program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Applicants must make requests for **Advanced Credit** as part of the admission process. Credit will not be given for academic course work taken as part of another completed degree/diploma or for courses taken to bring the applicant's grade point average to a required level for admission.

Any credit to be given for courses completed will be included in the letter of offer for admission to the Faculty of Graduate Studies.

## Flexible Grade Option (CG Grade)

Students admitted to the graduate programs in the Cumming School of Medicine will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for courses taken below the 600 level. At least one half of a graduate student's course work must be at the 600 level or higher. Students may receive credit for completing a course numbered 500-599 providing that the course is recommended by the supervisory committee and approval is received by the Graduate Program Director.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see **Time Limits**):

Maximum completion time for a doctoral program is six years. Expected completion time is five years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The selection of a graduate supervisor must be by mutual agreement between the student and the faculty member concerned at the time of application to the program and approved by the Graduate Program Director.

Supervisory committees, required for both master's and doctoral students, are established based upon the needs of the student and the expertise of the committee members, following discussions between the student and the supervisor and approved by the Graduate Program Director. A supervisory committee, consisting of the supervisor and co-supervisor (if applicable), plus two additional members must be in place no later than 3 months after the student's first registration in the program. Specializations in the MDSC program may have additional requirements.

### Research Proposal Requirements

All MSc and PhD students must defend a written research proposal to their supervisory committee. For MSc students, this document must be submitted within 12 months after initial registration in the program. For additional information about the PhD research proposal, refer to: <https://www.ucalgary.ca/pubs/calendar/grad/current/wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

### Required Examinations

#### Doctoral Candidacy

To enter candidacy, doctoral students must: (1) successfully complete all required courses, (2) attend Research Integrity Day (3) successfully complete the CIHR Sex and Gender in Research online training module(s), (4) have the thesis research proposal approved at a thesis proposal evaluation meeting, and (5) successfully complete a Field of Study oral examination. Specific details of the examination format and other candidacy requirements can be found at: <https://wcm.ucalgary.ca/gse/files/gse/csm-candidacy-examination-process-effective-september-1-2015.pdf>.

#### Thesis Examination

All students in thesis-based programs (MSc and PhD) must successfully pass the Final Thesis Oral Examination (see [Thesis Examinations](#)).

PhD students are expected to give a public seminar prior to the examination. During this public seminar, members of the examining committee will not be permitted to ask questions, and this presentation is not considered part of the examination.

PhD examinations will consist of an open oral examination. If the student has not given a public seminar immediately prior to the examination, they may be offered the opportunity to give a 15-minute presentation at the beginning of the examination.

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Examination Committee*

For MSc thesis examinations, the examination committee will consist of the student's supervisory committee (which includes the supervisor and co-supervisor, if applicable) plus an Internal/External Examiner, who may be internal to the student's home program. For a doctoral thesis examination, the examination committee will consist of the supervisory committee, an internal/external examiner (who may be internal to the student's home program), PLUS an external examiner who is external to the University of Calgary. The external examiner must be approved by the program director and the Faculty of Graduate Studies.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Cumming School of Medicine Funding Policy and can be found at <https://cumming.ucalgary.ca/gse/current-students/scholarships>.

Students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: <https://grad.ucalgary.ca/awards>.

## Overview

### General Program Information

A Graduate Specialization in Medical Imaging is offered in conjunction with the following graduate programs:

- Biomedical Engineering
- Electrical and Computer Engineering
- Medical Sciences
- Neurosciences
- Physics and Astronomy
- Psychology

The specialization is offered at the MSc and PhD level.

Location: FMC MRG 006

Program number: 403.944.8354

Email address: <mailto:medi@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/programs/medical-imaging-specialization/graduate-specialization>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization.

Admission into a graduate program that offers the Graduate Specialization in Medical Imaging and submission and approval of a written request to join the Specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Medical Imaging specialization must meet the following requirements:

- a) MSc students must take a minimum of 6 units (the core and an elective course). PhD students take at least 9 units (the core and two elective courses). PhD students previously completing the MSc specialization in Medical Imaging will be required to complete an additional 3 units (one elective course).
- b) Medical Imaging-related research thesis.
- c) Attendance and annual presentation in the [Advanced Imaging Seminar Series](#).

These requirements are in addition to the core requirements of a specific participating graduate program. In most programs, the medical imaging graduate courses would count towards graduate program elective courses. In some graduate programs, participation in the specialization may require students to take an additional graduate course or courses.

Core required course:

**Complete ALL of the following Courses:**

- MDSC689.01 - Medical Imaging Techniques

Elective courses:

**Complete ANY of the following Courses:**

- ENEL697 - Digital Image Processing  
**AND** MDSC689.02 - Advanced Magnetic Resonance Imaging  
**AND** MDSC689.03 - Advanced Medical Image Processing  
**AND** MDSC689.11 - Medical Imaging Applications  
**AND** MDSC689.99 - Medical Imaging Project
- ENME619 Special Problems,36
- Neuroscience 5850 at The University of Lethbridge
- Other Medical Imaging-related graduate courses with prior approval of specialization and graduate program

**Additional Comments:**

#### **Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

#### **Advanced Credit**

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process. See Advanced Credit for further information.

#### **Credit For Undergraduate Courses**

Credit (in the specialization) will not be given for 500-level courses.

#### **Time Limit, Supervisory Assignments and Required Examinations**

See requirements of home program.

#### **Research Proposal Requirements**

Research proposal must be on a Medical Imaging topic and fit into a research area broadly defined by the Specialization (see [website](#) for information).

Image Acquisition and Reconstruction - Development of algorithms suitable for accurate imaging using existing technologies (e.g., MR, CT) and emerging methods (e.g., microwaves).

Signal Processing for Information Synthesis - Development of robust strategies for the assessment of brain and other organ function via advanced signal processing.

Quantitative Imaging and Analysis - Development of software engineering approaches, validation and testing for the creation of resilient methods for quantitative imaging.

A copy of the proposal must be provided to the specialization office within 12 months of starting the program.

In programs that do not require submission of a research proposal, a suitable proposal should be developed by the student within 12 months of starting the specialization, approved by the supervisor and supervisory committee (where appropriate), and submitted to the Specialization office.

#### **Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

See home program. Additional funding may be available through the specialization or other University sources for well-qualified students.

## Overview

### General Program Information

### Specializations:

- Accounting
- Business Technology Management
- Entrepreneurship and Innovation
- Environmental Management/Sustainable Development
- Finance
- Marketing
- Organizational Behaviour and Human Resources
- Operations and Supply Chain Management
- Risk Management and Insurance
- Strategy and Global Management

The program requires full-time attendance.

Location: Scurfield Hall, Room 427

Phone: 403.220.6073

Fax: 403.282.0095

Email address: <mailto:phdrequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/doctoral-programs/phd>

## Admissions

### Program Admissions Information

See the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/management-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies requirements for **Admission**, the Haskayne School of Business requires:

a) An MBA degree or equivalent from a recognized institution with a recommended minimum admission grade point average of 3.50 on a four-point scale. Students with an undergraduate or master's degree in an area other than business may be required to complete a qualifying period to gain a general business background before beginning the normal doctoral course requirements.

It is possible to enter the PhD program without an MBA or other master's degree. Consult the Director of the PhD Program for further information.

b) Completion of the Graduate Management Admission Test (GMAT\*) with a recommended minimum score of 650, with high scores on both verbal and quantitative subcomponents. (Many successful applicants have earned scores of 700 and above). As an alternative to a GMAT score, results on the Graduate Record Exam (GRE) will be considered. Overall GRE test score in the 85th percentile is the recommended minimum.

c) For those students required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20, an IELTS score of 7.0 with no section less than 6.0, or a PTE score of 68.

d) Current CV.

e) Two reference letters.

f) A personal statement outlining objectives, intent and commitment to a research program.

g) Availability of a research-active supervisor and resources for the area in which the student wishes to study.

Work experience in business or public organizations will be considered.

*\*Consult the Haskayne School of Business about the Graduate Management Admission Test.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies **requirements**, the program requires:

The program consists of a minimum of 36 units. Two of these are core courses required of all students. In addition, students choose at least five courses in their chosen area(s) of study and five research methods courses.

a) Two core courses – MGST794 Theory Development and MGST795 Research Development. Students should take Management Studies 795 during the Spring/Summer Sessions between their first and second years.

b) Courses in the area(s) of study: Students will take a minimum of 15 units in their area(s) of study. Students can choose a major area and a minor area. The major area must be chosen from those offered within the Haskayne School of Business, which represents the student's specialization:

- Accounting
- Business Technology Management
- Entrepreneurship and Innovation
- Environmental Management/Sustainable Development
- Finance
- Marketing
- Operations and Supply Chain Management
- Organizational Behaviour and Human Resources
- Risk Management and Insurance
- Strategy and Global Management

Students will be required to take a minimum of 9 units from the major area.

c) Minor Area – The minor area of study must complement the major area. It may be chosen from those areas offered within the Haskayne School of Business or from those offered from other faculties. Students will be required to take a minimum of 3 units in their minor area.

d) Research Methods and Statistics: Students are required to choose either Stream A or Stream B and to take at least two courses in their selected Stream from the following lists:

Stream A: ECON615 Econometrics/495; ECON715 Advanced Econometrics II/497; plus one other course option (e.g., OPMA799.03 Operational Research Issues)

Stream B: MGST773 Multivariate Analysis in MGMT; MGST783 AdvResearchMethodology&Method; plus a qualitative research methods course (e.g., SGMA796 Qlt'v Rsrc'h Strg'y Orgnzns)

Nine units of additional courses in research methods and statistics (a total of fifteen units) are required, offered within the Haskayne School of Business or by other faculties.

The typical student will take 36 units over the first 20 months of the program. The number of courses may vary according to the student's particular program and background. Students work closely with their research-active supervisors who help guide them to the appropriate courses within and outside the School. There is also a requirement to complete courses/workshops at

the Teaching and Learning Centre to develop necessary teaching skills.

As part of the program, all doctoral students are required to teach two courses as instructor (after passing Field of Study Exams). Courses will be assigned in consultation with Supervisor and Area Chair.

Attendance at an orientation session is mandatory for all incoming doctoral students. Regular attendance at seminars offered by the PhD program, their disciplinary Areas, and the School is also required of all doctoral students.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

Course requirements for doctoral students will be based on the student's background and program needs. Credit for previous courses will be provided as appropriate.

#### **Flexible Grade Option (CG Grade)**

The PhD program will allow students to pursue the **Flexible Grade Option (CG Grade)** with the exception of the following courses:

- Economics 615
- Economics 715
- Management Studies 773
- Management Studies 783
- Management Studies 794 (typically offered in the Fall Term)
- Management Studies 795

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### **Time Limit**

Six years.

#### **Supervisory Assignments, Research Proposal and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

Doctoral students are required to have secured a permanent supervisor within the first twelve months of their program. A supervisory committee reflective of the student's research interests is required within three months after the permanent supervisor has been approved.

#### **Research Proposal Requirements**

Students must complete a written thesis proposal, which will be evaluated by the supervisory committee in a meeting. See **HSB Candidacy Requirements** for further information about the proposal requirements and approval process.

Students whose research involves human subjects must receive approval from the Haskayne School of Business and from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

## Required Examinations

### Candidacy

Doctoral students must pass oral and written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see [HSB Candidacy Requirements](#).

### Thesis Examination

Doctoral students will complete an oral thesis examination at the end of their programs. The student presentation portion of the thesis examination is public. In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Master of Information Security and Privacy is a continuous program with no scheduled break.

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the [GCERT Data](#), [GCERT Netw](#) or [GCERT Soft](#) may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Master of Information Security and Privacy program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/information-security-and-privacy-misp-course>.

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.

- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

Students must complete 30 units:

##### Enroll in the following Course Sets:

- Information Security and Privacy 601
- Minimum of one of: Information Security and Privacy 603, 605, 611
- Minimum of two of: Information Security and Privacy 641, 643, 645
- Minimum of two of: Information Security and Privacy 621, 623, 625, 631
- Information Security and Privacy 691 Internship\*

Elective: Students may choose to complete [ISEC651 Topics in Security and Privacy](#).

\*Normally, students will be required to complete [ISEC691 Info Sec & Privacy Internship](#). However, with the permission of the Program Director, students may complete [ISEC681 Info Sec & Privacy Capstone](#) instead.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

Advanced credit will not normally be given for the MISP program.

### **Flexible Grade Option (CG Grade)**

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### **Credit for Undergraduate Courses**

Credit will not normally be granted for undergraduate courses.

### **Supervisory Assignments**

An Academic Coordinator is assigned to each cohort in the Master's program.

### **Time Limits**

Expected completion time for full-time students in the Master of Information Security and Privacy for full-time students is 12 months. The maximum completion time is four years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

### **Financial Assistance**

#### **Type**

Completion Requirement

#### **Additional Comments:**

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the Awards and Financial Assistance section.

## **Overview**

### **General Program Information**

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## **Admissions**

### **Program Admissions Information**

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/landscape-architecture-mla-course>.

Prospective applicants are advised to use opportunities within their four-year recognized university undergraduate degree studies to develop knowledge in at least one and possibly more than one of the following areas: design, humanities, social science, arts, engineering, biological or earth sciences – including wherever possible studio, laboratory and collaborative learning experiences.

In addition to the Faculty of Graduate Studies requirements for **Admission**, the program requires:

a) Statement of Interest

A clear, well-written statement of interest which describes the applicant's interest in landscape architecture and how the applicant's specific educational background and professional or personal experience relates to Landscape Architecture as a field of study (maximum two pages).

b) Digital Portfolio

Evidence of original and/or creative work in any field or medium. This could include design work, professional work, research, creative ability, or ideas related to their statement of intent or interests in Landscape Architecture. The requirements for digital portfolio submissions are found on the School of Architecture, Planning and Landscape website at:

<https://sapl.ucalgary.ca/future-students/admissions/mla>.

c) Curriculum Vitae

A current copy of curriculum vitae (CV).

d) Reference Letters

Three reference letters, of which at least two should be academic.

e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a TOEFL score of 105 (Internet-based test); or an IELTS score of 7.5; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 59; a Duolingo score of 145 (with no subscore below 125); or a Cambridge C1/C2 Proficiency score of 200. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

Note: Applicants with previous related design degrees (e.g. a Bachelor of Landscape Architecture) may have some or all of the foundation year courses waived. Applications will be evaluated on a case-by-case basis, this review will require supporting documentation such as course outlines. An assessment of these prerequisite requirements will be made by an admissions committee and applicants will be informed in offers of admission which, if any, courses at the Foundation level will be required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

The Master of Landscape Architecture program is structured around a core studio sequence. Required courses and electives make up the remainder of the program. In addition to the Faculty of Graduate Studies **requirements**, successful completion of the MLA must include the following academic requirements:

Foundation Year (Qualifying Year) 30 units

##### Complete ALL of the following Courses:

- LAND600 - Landscape Architecture History and Theory  
**AND** LAND604 - Landscape Architecture Studio I - Foundation  
**AND** ACCT200 - ACCT 200 (Inactive)  
**AND** PLAN600 - Landscape Ecology and Planning

**AND PLAN602** - Computer Modelling for Urban Design  
**AND PLAN606** - Site Planning Studio  
**AND PLAN608** - Geographic Information Systems for Environmental Design  
**AND PLAN626** - Urban Design Theory

a) 54 units of core required courses:

**Complete ALL of the following Courses:**

- **ARCH675** - Urban Systems
  - AND LAND602** - Plants in the Landscape
  - AND LAND608** - Landscape Responses to Climate Change, Energy and Water
  - AND LAND610** - Green Infrastructure/Winter City Design
  - AND LAND612** - Site Technology II: Construction and Materials
  - AND LAND614** - Landscape Architecture Studio II - Intermediate
  - AND LAND616** - Professional Practice and Project Management for Landscape Architecture
  - AND LAND618** - Advanced Graphics in Landscape Architecture
  - AND LAND620** - Synthesis Studio in Landscape Architecture
  - AND LAND700** - Regional Landscape Systems Studio
  - AND LAND702** - Landscape Architecture Studio III - Advanced
  - AND PLAN612** - Urban Infrastructure and Land Use
  - AND PLAN616** - Urban Design Studio

b) 3 units from:

**Complete ANY of the following Courses:**

- **LAND670** - Experiential Learning in Landscape Architecture  
**OR LAND672** - Experiential Learning in Landscape Architecture  
**OR LAND674** - Experiential Learning in Landscape Architecture  
**OR LAND676** - Experiential Learning in Landscape Architecture

c) 6 units of elective credits from other courses offered by SAPL or the University of Calgary at the 500-level or higher that relate to individual interests in Landscape Architecture.

**Additional Comments:**

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

A student may apply for advanced credit for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See Advanced Credit.

Course Exemptions: Students registered in a graduate degree program may receive an exemption from a specific course if they can demonstrate successful completion of an equivalent course. To be eligible for an exemption, the student must provide original transcripts, course outlines and samples of course assignments which will be assessed for academic equivalency.

Courses for which exemptions are being sought must be from a recognized institution, and they must be graded courses with a minimum grade of "B-". Students granted an exemption from a course may be required to take another, equally-weighted, course to satisfy credit-hour requirements for their program.

## Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Additional Requirements

A laptop computer is required for all course-based degree programs in the School of Architecture, Planning and Landscape. Further information pertaining to specifications will be sent out to newly-admitted students in the summer term prior to the commencement of their studies.

Attendance at orientation for first year students is required.

## Credit for Undergraduate Courses

Only undergraduate courses numbered 500-599 may be considered for graduate-level credit and are subject to approval by the Associate Dean (Planning and Landscape).

## Time Limits

Students are expected to enroll on a full-time basis and complete the degree requirements within two registration years (excluding the Foundation Year). Maximum completion time is six registration years. See [Time Limits](#).

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

The Haskayne School of Business offers a combined dual degree program with the [Technical University of Munich \(TUM\)](#). This dual degree results in two graduate degrees, the Master of Management from the University of Calgary and the Master of Science from TUM.

Students apply to the dual degree program through the University of Calgary but must meet admission requirements of both institutions.

The MMgmt program is delivered on-campus in an intensive format with no scheduled break. Only full-time registration is available.

# UCalgary

Location: Scurfield Hall, Room 302

Phone: 403.220.8872

Email address: <mailto:mmgmt@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/programs/mmgmt>

## Admissions

### Program Admissions Information

See the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-management-course-based>.

In addition to meeting Faculty of Graduate Studies requirements for admission, the Master of Management program requires the following:

- a) Completion of a four-year non-business bachelor's degree.
- b) A minimum admission grade point average (GPA) of 3.00 calculated over the last 60 units of university-level courses at the time of application (Graduate Management Admission Test or GMAT not required).
- c) Students with an admission GPA between 2.70 and 3.00 may be considered for admission based on a combination of admission GPA and an acceptable GMAT score. Admission is based on the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150^*$ .

\*Consult the Haskayne School of Business about the GMAT.

- d) Typically, a maximum of three years professional work experience since the completion of an undergraduate degree.

- e) A current resume.

- f) A 250-word response to each of two questions as part of the application process.

- g) Participation in an interview (upon request).

- h) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20, an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the Academic Communication Certificate with a minimum overall grade of "A-".

It is recommended that applicants complete an undergraduate course in economics, statistics, mathematics or psychology. Admitted students will be provided with online preparatory course work through the Haskayne School of Business prior to starting specific courses in the program.

In addition to the above, students applying to the Master of Science program as part of the dual degree at TUM must have 12 months of full-time work experience. See website for additional details.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the Master of Management program with an online non-refundable deposit of \$3,000.

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

Program/Course Requirements
Type
Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business requires:

Students will complete a total of 33 units, which include 30 units from 18 core courses required of all students and 3 units from two elective courses.

a) Eighteen core courses (total of 30 units):

**Earn at least 30 credits from the following:**

- MMgmt Core Courses

b) Two of four elective courses (total of 3 units):

**Earn at least 3 credits from the following:**

- Untitled Course set

#### Additional Comments:

Program requirements for the Master of Science degree as part of the dual degree program at TUM can be found [here](#).

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

No advanced credit will be considered.

### Flexible Grade Option (CG Grade)

Students admitted to the Master of Management program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Students must be registered full-time and are expected to complete the Master of Management at the University of Calgary in 10 months. Normally, the maximum completion time is two years.

#### Financial Assistance

##### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Students can complete the Haskayne MBA through full-time study either through the daytime or the evening.

### MBA Specializations:

# UCalgary

- Business Intelligence and Data Analytics
  - Entrepreneurship and Innovation
  - Finance
  - Global Energy Management and Sustainable Development
  - Management Analytics
  - Marketing
  - Project Management
  - Real Estate Studies
- 

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

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In addition to the Faculty of Graduate Studies requirements for admission, the program requires:

- a) A current résumé.
- b) A 250-word response to each of two questions provided as part of the application process.
- c) For applicants required to prove present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20 (Internet-based test), or an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the Academic Communication Certificate with a minimum overall grade of "A-".
- d) The Graduate Management Admission Test (GMAT) is only required for applicants with a degree (from an institution outside of Canada or the United States) with a recommended minimum score of 550 or an equivalent Graduate Record Examination (GRE) score.

Applicants with a degree from an institution in Canada or the United States with a grade point average (GPA) of at least 3.0 on a four-point scale are exempt from submitting a GMAT score. An applicant who has completed a bachelor's degree from an institution in Canada or the United States with a GPA from 2.50 to 2.99, and chooses to submit a GMAT score, may be admitted to an MBA course-based program as a regular student on the basis of the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150$ .

*\*Consult the Haskayne School of Business about the Graduate Management Admission Test.*

- e) Two reference letters.
  - f) For the course-based Day and Evening MBA program only, the equivalent of at least 2 years of appropriate work experience.
  - g) Applicants may be required to participate in an interview.
- 

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the MBA program with an online non-refundable deposit:

Daytime MBA: \$3,000

Evening MBA: \$3,000

Accelerated MBA: \$3,000

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the requirements of the Faculty of Graduate Studies, the Haskayne School of Business requires:

The MBA degree normally consists of 60 units. Students may be granted exemption from required courses based upon prior academic preparation and with the approval of the Graduate Director (MBA Program). Students must complete a minimum of 45 units, of which a maximum of 15 units may be transfer credit from another recognized graduate program, for the MBA degree.

Students who have completed a recognized/accredited Master of Management degree within the last 10 years may be granted course exemption from 27 units and required to complete a minimum of 33 units for the MBA degree, of which 3 units may be transfer credit from another recognized graduate program.

For students approved for a Master of Management exemption, requirements normally will be:

**Complete ALL of the following Courses:**

- ACCT601 - Introductory Financial Accounting  
**AND** ACCT603 - Management Accounting  
**AND** MGST611 - Managerial Economics  
**AND** MGST613 - Managerial Decision Modeling  
**AND** OBHR621 - Advanced Leadership  
**AND** SGMA601 - Strategic Management I  
**AND** SGMA603 - Global Environment of Business

plus:

- 12 units of elective courses.

#### Specializations

Students must complete 18 units of additional courses beyond the required courses. Within these 18 units, students may select an area of specialization normally consisting of 12 units. Specialization requirements are as follows:

**Complete ANY of the following Requirement Sets:**

- MBA, Business Intelligence and Data Analytics Specialization
- MBA, Entrepreneurship and Innovation
- MBA, Finance
- MBA, Global Energy Management and Sustainable Development
- MBA, Management Analytics
- MBA, Marketing
- MBA, Project Management
- MBA, Real Estate Studies

Students who elect not to choose an area of specialization may choose instead from various graduate courses offered by the Haskayne School of Business. Subject to the approval of the Graduate Director (MBA Program) and the Faculty of Graduate Studies, graduate courses offered at the University of Calgary outside the Haskayne School of Business may also be taken.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the MBA (course-based) program, Executive MBA program or Executive MBA Specializing in Global Energy program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

The day MBA option normally takes 20 months to complete (from first registration), while the evening option normally takes three years. Maximum time limit: six years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the Awards and Financial Assistance section of this Calendar.

## Overview

### General Program Information

This program is delivered on-campus in an intensive format with no scheduled break. Only full-time registration is available. Students may choose to combine the Master of Management degree with the Master of Science degree (Dual Degree) offered through the Technical University of Munich (TUM).

Location: Mathison Hall, Room 424

Phone: 403.220.8872

Email address: <mailto:mmgmt@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/programs/mmgmt>

## Admissions

### Program Admissions Information

See the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-management-course-based>.

In addition to meeting Faculty of Graduate Studies requirements for admission, the Master of Management program requires the following:

- a) Completion of a four-year non-business bachelor's degree.
- b) A minimum admission grade point average (GPA) of 3.00 calculated over the last 60 units of university-level courses at the time of application (Graduate Management Admission Test or GMAT not required).
- c) Students with an admission GPA between 2.70 and 3.00 may be considered for admission based on a combination of admission GPA and an acceptable GMAT score. Admission is based on the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150^*$ .

\*Consult the Haskayne School of Business about the GMAT.

- d) Typically, a maximum of three years professional work experience since the completion of an undergraduate degree.
- e) A current resume.
- f) A 250-word response to each of two questions as part of the application process.
- g) Participation in an interview (upon request).

h) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20, an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the Academic Communication Certificate with a minimum overall grade of "A-".

It is recommended that applicants complete an undergraduate course in economics, statistics, mathematics or psychology. Admitted students will be provided with online preparatory course work through the Haskayne School of Business prior to starting specific courses in the program.

## Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the Master of Management program with an online non-refundable deposit of \$3,000.

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies requirements, the Haskayne School of Business requires:

Students will complete a total of 33 units, which include 30 units from 18 core courses required of all students and 3 units from two elective courses.

- a) Eighteen core courses (total of 30 units):

**Earn at least 30 credits from the following:**

- MMgmt Core Courses

- b) One of the following courses: (total of 3 units)

- MGST670 WIL Topics Management Studies
- MGST677 Master Management Graduate Int

#### Additional Comments:

#### Additional Program Information

##### Type

## Completion Requirement

### Additional Comments:

### Advanced Credit

No advanced credit will be considered.

### Flexible Grade Option (CG Grade)

Students admitted to the Master of Management program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Students must be registered full-time and are expected to complete the Master of Management at the University of Calgary in 10 months. Normally, the maximum completion time is two years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape and the Haskayne School of Business also offer a combined degree, Master of Planning/Master of Business Administration (MPlan/MBA):

- **Combined M**

The School does not formally offer a part-time option. All students will be considered full-time and register during the Fall, Winter and Spring terms (September to June) with a regularly scheduled summer break in July and August.

In Canada, the Canadian Architectural Certification Board (CACB) is the sole agency authorized by the Regulatory Organization of Architecture in Canada (ROAC) to accredit Canadian professional degree programs in architecture for the purposes of architectural licensure.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website:

Master of Planning: <https://grad.ucalgary.ca/future-students/explore-programs/planning-mplan-course>.

Admission to the Master of Planning is a competitive process. Applicants must meet minimum Faculty of Graduate Studies requirements for [Admission](#) (including a 3.00 GPA). In addition to Faculty of Graduate Studies requirements, the program requires:

- A clear, well-written statement of interest which describes the applicant's interest in planning and how the applicant's specific educational background and professional or personal experience relates to Planning as a field of study.
- At least one example of the applicant's previous academic or professional writing, such as a written essay, published research paper, major academic paper, design project or consulting report.
- A portfolio that includes examples of the applicant's design work or design thinking, including creative work or ideas, community action, planning or design products, or graphics and visual communication.

The requirements for digital portfolio submissions are found in the School of Architecture, Planning and Landscape website at: <https://sapl.ucalgary.ca/future-students/admissions/mplan>.

- Three reference letters, of which at least two should be academic.
- A current copy of curriculum vitae (CV).
- For applicants who are required to prove proficiency in English, a TOEFL score of 105 (Internet-based test); or an IELTS score of 7.5; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 59; a Duolingo score of 145 (with no subscore below 125); or a Cambridge C1/C2 Proficiency score of 200. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

Master of Planning/Master of Business Administration (MPlan/MBA)

An applicant to the combined MPlan/MBA program must be admitted to the MPlan program and make separate application for, and be admitted by, the MBA program. The respective Combined Program Committee will review each application.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

The Master of Planning program is structured around a core studio sequence. Required courses and electives make up the remainder of the program. In addition to the Faculty of Graduate Studies [requirements](#), successful completion of the MPlan must include the following academic requirements:

- 57 units of core required courses:

##### Complete ALL of the following Courses:

- ARCH675 - Urban Systems
- AND PLAN600 - Landscape Ecology and Planning
- AND PLAN602 - Computer Modelling for Urban Design
- AND PLAN604 - Planning History and Theory
- AND PLAN606 - Site Planning Studio
- AND PLAN608 - Geographic Information Systems for Environmental Design
- AND PLAN610 - Community Planning Studio
- AND PLAN612 - Urban Infrastructure and Land Use

**AND PLAN616 - Urban Design Studio**  
**AND PLAN618 - Regional Planning Studio**  
**AND PLAN620 - Planning and Public Engagement**  
**AND PLAN622 - Project Management for Planners**  
**AND PLAN626 - Urban Design Theory**  
**AND PLAN628 - Professional Planning Practice**  
**AND PLAN630 - Advanced Professional Planning Studio**

b) 3 units of elective credits from:

**Complete ANY of the following Courses:**

- **PLAN614 - Real Estate Development and Finance**  
**OR PLAN624 - Housing and Neighbourhood Change**

c) 3 units from:

**Complete ANY of the following Courses:**

- **PLAN670 - Experiential Learning in Planning**  
**OR PLAN672 - Experiential Learning in Planning**  
**OR PLAN674 - Experiential Learning in Planning**  
**OR PLAN676 - Experiential Learning in Planning**

d) 3 units of elective credits from other courses offered by SAPL or the University of Calgary at the 500-level or higher that relate to individual interests in Planning.

## **Master of Planning/Master of Business Administration (MPlan/MBA) Combined Degree**

Students admitted to the MPlan/MBA will focus on courses for the MBA during the first year and on MPlan courses in years two and three. Typically, the Real Estate Studies specialization will be completed in year four. Course requirements include:

a) MBA courses (54 units):

**Complete ALL of the following Courses:**

- **ACCT601 - Introductory Financial Accounting**  
**AND ACCT603 - Management Accounting**  
**AND SGMA603 - Global Environment of Business**  
**AND BTMA601 - Business Technology Management**  
**AND ENTI601 - Entrepreneurial Thinking**  
**AND FNCE601 - Managerial Finance**  
**AND MGST611 - Managerial Economics**  
**AND MGST613 - Managerial Decision Modeling**  
**AND MGST615 - Strategic Business Analysis**  
**AND MKTG601 - Marketing Management**  
**AND OPMA601 - Operations Management**  
**AND OBHR601 - Organizational Behaviour**  
**AND OBHR621 - Advanced Leadership**  
**AND SGMA601 - Strategic Management I**

plus four elective courses (12 units total) in the Real Estate Studies specialization.

b) MPlan courses (57 units of core courses):

**Complete ALL of the following Courses:**

- ARCH675 - Urban Systems
  - AND** PLAN600 - Landscape Ecology and Planning
  - AND** PLAN602 - Computer Modelling for Urban Design
  - AND** PLAN604 - Planning History and Theory
  - AND** PLAN606 - Site Planning Studio
  - AND** PLAN608 - Geographic Information Systems for Environmental Design
  - AND** PLAN610 - Community Planning Studio
  - AND** PLAN612 - Urban Infrastructure and Land Use
  - AND** PLAN616 - Urban Design Studio
  - AND** PLAN618 - Regional Planning Studio
  - AND** PLAN620 - Planning and Public Engagement
  - AND** PLAN622 - Project Management for Planners
  - AND** PLAN626 - Urban Design Theory
  - AND** PLAN628 - Professional Planning Practice
  - AND** PLAN630 - Advanced Professional Planning Studio

plus three elective courses (9 units total) in the Real Estate Studies specialization approved by SAPL, Master of Planning program.

**Additional Comments:**

### Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a Reappraisal of Academic Assessments (Final Grades) within 5 business days of the start of the subsequent term.

Reappraisal of Academic Assessments (Final Grades) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

A student may apply for advanced credit for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See Advanced Credit.

Course Exemptions: Students registered in a graduate degree program may receive an exemption from a specific course if they can demonstrate successful completion of an equivalent course. In order to be eligible for an exemption, the student must provide original transcripts, course outlines and samples of course assignments which will be assessed for academic equivalency. Courses for which exemptions are being sought must be from a recognized institution, and they must be graded courses with a minimum grade of "B-". Students granted an exemption from a course may be required to take another, equally-weighted, course to satisfy credit-hour requirements for their program.

### Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Additional Requirements

A laptop computer is required for all course-based degree programs in the School of Architecture, Landscape and Planning. Further information pertaining to specifications will be sent out to newly-admitted students in the summer term prior to the commencement of their studies.

Attendance at orientation for first year students is required.

## Credit for Undergraduate Courses

Only undergraduate courses numbered 500-599 may be considered for graduate-level credit and are subject to approval by the Associate Dean (Planning and Landscape).

## Time Limit

Students registered in the Master of Planning program are expected to enroll on a full-time basis and complete the degree requirements within two registration years. Maximum completion time is six registration years. See [Time Limits](#).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

The MPP is a full-time, 12-month professional degree program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Combined offerings include:

- [Combined M](#)
- [Combined J](#)

Location: School of Public Policy

Downtown Campus

906 8th Avenue SW, 5th Floor

Calgary, Alberta T2P 1H9

Program number: 403.210.7109

Fax: 403.210.6939

Email address: <mailto:mpp@ucalgary.ca>

Web page URL: <https://spp.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications for the MPP program is available on the Future Students website:  
<http://www.ucalgary.ca/future-students/graduate/explore-programs/public-policy-master-public-policy-course-based>.

In addition to the Faculty of Graduate Studies [admission requirements](#), the School requires:

- a) A minimum 3.30 grade point average (on the four-point scale) in the last two years of program or over the last 60 units.
- b) A current resume.
- c) A personal statement outlining the applicant's career goals and how the applied-for program would help achieve those goals.
- d) For students required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test), or a minimum score of 7.5 on the IELTS, or a minimum score of 70 on the CAEL (with a minimum of 70 on each section). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the School of Public Policy requires that all students complete the following:

33 units consisting of:

a) Ten core courses:

**Complete ALL of the following Course Sets:**

- Core MPP Courses

b) A total of six units of electives. This can include [PPOL699 Topics in Public Policy](#) or other graduate-level coursework approved by the Graduate Program Director. The two elective courses should be related in such a way that they form a focus in an area of public policy.

#### Additional Comments:

##### Copyediting

The School of Public Policy does not allow copyediting on students' work.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

The School hosts a variety of Community Outreach events year-round that attract global policy experts and practitioners. As a feature of the MPP program, The School also puts on a Speaker Series specifically for students in the program. These talks feature prominent policy figures in an interactive environment.

The School's event series represents a tremendous opportunity for students to network with policy experts from business and government. For this reason, students are expected to attend as many events as possible throughout the academic year.

## Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma. If graduate-level courses are taken as post-BA courses and not used as credit towards another degree, the School may allow the student to claim up to 6 units at our graduate level

towards the MPP requirements should the student be admitted into the MPP program.

### Flexible Grade Option (CG Grade)

Students admitted to the Master of Public Policy program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will affect students' ability for internal awards.

### Credit for Undergraduate Courses

No credit will be given for courses taken below the 600-level, except in special cases.

### Time Limit

Maximum completion time for the MPP is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All MPP students in the program will be guided by faculty holding appointments to the School.

### Required Examinations

No additional examinations outside of the courses are required.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students admitted to the MPP program will automatically be considered for financial awards from the School. For information on awards, see the [website](#) for the School and the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Actuarial Science
- Biostatistics
- Mathematical Finance
- Mathematics
- Statistics

The Master of Science (course-based) degree may be completed on a part-time basis. The normal course load for a full-time course-based Master of Science student is 9 units per term.

Location: Science A Building, Room 229

Email address: [mailto:sci.grad@ucalgary.ca](mailto:mailto:sci.grad@ucalgary.ca)

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-master-science-course-based>.

In addition to the Faculties of Graduate Studies and Science [requirements](#), the Department requires:

- Normally, bachelor's degree, or its equivalent, in the subject of the specialization to which the application is made, or a closely related area.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based), or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- Three reference forms with reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

All students must complete 25.5 units of coursework at the graduate level. Coursework must include:

- For all specializations: completion of the seminar course (1.5 units) relevant to the specialization in the first year of the program. In addition:

**Earn at least 1.5 credits from the following:**

- MTST Graduate Seminar Courses

- For the **Mathematics** specialization: 6 units from List A.

**Earn at least 6 credits from the following:**

- MTST Graduate List A

- For the **Statistics** specialization: at least 9 units from List C.

**Earn at least 9 credits from the following:**

- MTST Graduate List C

- For the **Actuarial Science** specialization: 6 units from List C and 6 units from List D.

**Earn at least 12 credits from the following:**

- MTST Graduate List C  
**AND** MTST Graduate List D

e) For the **Mathematical Finance** specialization: **6 units from list E, 6 units from List F and 6 units from List G (or 6 units from List E, 9 units from List F, and 3 units from List G).**

Earn at least 18 credits from the following:

- MTST Graduate List E  
**AND** MTST Graduate List F  
**AND** MTST Graduate List G

f) For the **Biostatistics** specialization: **Biostatistics 601, Biostatistics 610**, minimum of **9 units from List C**, and maximum of **9 units of electives in Biostatistics or Statistics** (which may include courses from List C).

Earn at least 9 credits from the following:

- MTST Graduate List C

**Additional Comments:**

#### Additional Program Information

Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

### Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

### Time Limit

The expected completion time for full-time master's students is two years. The maximum completion time allowed for a course-based master's program is six years.

#### Financial Assistance

Type

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

### General Program Information

#### Specializations:

- Actuarial Science
- **BioStatist**
- Mathematical Finance
- Mathematics
- Statistics

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-master-science-thesis-based>.

In addition to the Faculties of Graduate Studies and Science **requirements**, the Department requires:

- Normally, bachelor's degree, or its equivalent, in the subject of the specialization to which the application is made, or a closely related area.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based), or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- Three reference forms with reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements** and Faculty of Science requirements, the Department requires:  
All students must complete course work to the equivalent of an honours bachelor's degree plus at least 16.5 units at the graduate level. Course work must include:

- For all specializations: completion of the seminar course (1.5 units) relevant to the specialization, in the first year of the program.

**Earn at least 1.5 credits from the following:**

- MTST Graduate Seminar Courses

- For the **Mathematics** specialization: 6 units from **List A**.

Earn at least 6 credits from the following:

- MTST Graduate List A

c) For the **Statistics** specialization: at least 9 units from List C, 6 units of which must be Statistics 701 and 721.

Earn at least 9 credits from the following:

- MTST Graduate List C

d) For the **Actuarial Science** specialization: 6 units from List C and 6 units from List D.

Earn at least 12 credits from the following:

- MTST Graduate List C  
**AND** MTST Graduate List D

e) For the **Mathematical Finance** specialization: 6 units from List E, 3 units from List F, and 3 units from List G.

Earn at least 12 credits from the following:

- MTST Graduate List E  
**AND** MTST Graduate List F  
**AND** MTST Graduate List G

Additional Comments:

#### Additional Program Information

Type

Completion Requirement

Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

### Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

### Time Limit

The expected completion time for full-time master's students is two years. The maximum completion time allowed is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director, Department of Mathematics and Statistics, assigns supervisors based upon the graduate student's proposed program admission.

## Required Examinations

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program. However, it is strongly encouraged that whenever reasonable the Internal Examiner should be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

### General Program Information

#### Specializations:

- Actuarial Science
- [BioStatist](#)
- Mathematical Finance
- Mathematics
- Statistics

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-doctor-philosophy-thesis-based>.

In addition to the Faculties of Graduate Studies and Science **requirements**, the Department requires:

- a) A master's degree or equivalent in the subject of the specialization to which the application is made, or a closely related area.
- b) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- c) Three reference forms with reference letters.
- d) Excellent students, admitted to the master's program, may be transferred to the PhD program after having demonstrated exceptional performance at the graduate level, subject to endorsement by the supervisor and approval by the Graduate Committee. Such transfer requests are to be initiated by the supervisor and are to include information about research ability.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Science requires students to complete:

Course requirements for the Doctor of Philosophy beyond those for a master's degree are determined on an individual basis, but the following rules apply: doctoral students must complete 25.5 units of graduate-level coursework in their total graduate program (MSc and PhD). PhD coursework must include:

- a) For all specializations: completion of the seminar course (1.5 units) relevant to the specialization, in the first or second year of the program.

**Earn at least 1.5 credits from the following:**

- MTST Graduate Seminar Courses

- b) For the **Mathematics** specialization: at least 15 units taken in the doctoral program at the University of Calgary. **6 of these units must come from List A and 3 units from List A or List B.**

**Earn at least 9 credits from the following:**

- MTST Graduate List A  
**AND** MTST Graduate List B

- c) For the **Statistics** specialization: **at least 9 units from List C, 6 units of which must be Statistics 701 and 721.**

**Earn at least 9 credits from the following:**

- MTST Graduate List C

- d) For the **Actuarial Science** specialization: **STAT721 Statistical Inference** (from List C) **and at least 3 more units from List C and 6 more units from List D.**

**Earn at least 9 credits from the following:**

- MTST Graduate List C  
**AND** MTST Graduate List D

e) For the **Mathematical Finance** specialization: **MATH681 Stochastic Calculus Finance**, **MATH683 Computational Finance**, at least 3 additional units from List F, and at least 6 additional units from List F or List G.

Earn at least 9 credits from the following:

- MTST Graduate List F  
**AND** MTST Graduate List G

**Additional Comments:**

## Preliminary Examinations

Doctoral students must pass written Preliminary Examinations during first year but no later than 18 months from the beginning of their doctoral programs and before the oral Field of Study examination.

- Mathematics PhD students must pass Preliminary Examinations based on material for three courses, two of which must come from List A and the third from List A or List B. Preliminary examinations will be offered during the final examination period in those semesters during which the corresponding courses are offered.
- Statistics PhD students must pass two Preliminary Examinations, one in probability based on Statistics 701 and the other in statistics based on Statistics 721. These examinations are usually offered in May and/or in December.
- Actuarial Science PhD students must pass two Preliminary Examinations based on material for two courses from List C or D.
- Biostatistics PhD students must pass two Preliminary Examinations in Statistics based on material for two courses from List C.
- Mathematical Finance PhD students must pass two Preliminary Examinations on material for two 600 or 700-level courses from List E or List F.

All Mathematics PhD students are required to give three invited or contributed presentations during their doctoral degree, not including presentations that are required as part of a graduate course or the 600 seminar course.

### Additional Program Information

Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

## Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

## Time Limit

The expected completion time for a doctoral student is four years, and the maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director, Department of Mathematics and Statistics, assigns supervisors based upon the graduate student's proposed program admission.

## Required Examinations

### Candidacy

Doctoral students must complete a written thesis proposal and pass an oral Field of Study examination. For complete details of the examination format and other candidacy requirements, see [Departmental Candidacy Requirements](#) and Faculty of Graduate Studies [Candidacy](#) regulations.

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program. However, it is strongly encouraged that whenever reasonable the Internal Examiner should be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-](https://ucalgary.ca/future-)

[students/graduate/explore-programs/music-master-music-thesis-based.](#)

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- a) A completed Bachelor of Music degree (or equivalent).
- b) Normally, two years of successful teaching experience or equivalent professional involvement in music education.
- c) An essay on a topic in Music Education prepared during or subsequent to the applicant's undergraduate work.
- d) One-page letter detailing their specific reasons for pursuing graduate study.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- [MUED671 Selected Topic in School Music](#), and
- 12 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is five years for the Master of Music programs.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

### Thesis Examinations

In addition to Faculty of Graduate Studies requirements for **Thesis Examinations**, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar and the program's website.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) One or two extended research essays.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- An interdisciplinary course (3 units) designed by the student and supervisor, and
- 15 units of additional approved graduate-level courses.

### Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is six years for the doctoral program.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires that all applicants submit:

- a) A completed Bachelor of Music degree (or equivalent).
- b) A research essay or paper of approximately 10-15 pages on a topic in music history or theory prepared during or subsequent to the applicant's undergraduate course work.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- 3-unit graduate course in Music Theory, Composition, Sonic Arts or Music History and Literature
- 12 units of graduate Music courses, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

Applicants are required to demonstrate a reading knowledge of a language other than English—normally German. In practice, this requirement and any other linguistic competence that may be deemed necessary for the student's proposed research area must be met before the thesis topic will be approved.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is four years for the Master of Arts (Musicology).

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

In addition to Faculty of Graduate Studies requirements, the program requires:

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) One or two extended research essays of approximately 25 pages in length.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- An interdisciplinary course (3 units) designed by the student and supervisor, and
- 15 units of additional approved graduate-level courses.

### Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is six years for the doctoral program.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

The course-based Graduate Certificate program is available for full-time or part-time enrolment.

Location: Murray Fraser Hall

Program number: 403.210.8718

Fax: 403.210.9662

Email address: <mailto:law@ucalgary.ca>

Web page URL: <https://law.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications are available on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs/natural-resources-energy-environmental-law-certificate-course-based>.

In addition to the **admission** requirements of the Faculty of Graduate Studies, the Faculty of Law requires:

- a) Ordinarily, a JD, LLB or equivalent degree in Law.
- b) For applicants required to provide proof of proficiency in English, a minimum TOEFL Internet-based score of 97, with a minimum of 25 on the reading and writing components; or the minimum IELTS overall band score of 7.0, with a reading and writing band minimum of 7.0; or a CAEL score of 70, with a minimum of 70 on reading and writing components; or a PTE score of 68. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in the Academic Writing and Composition course, a minimum grade of "A-" in the Research Writing and Form course, and a minimum grade of "B+" in other courses.
- c) Two reference letters.
- d) An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Law requires:

The completion of four courses (12 units) in the area of natural resources, energy or environmental law or a related area, including at least one with a research paper evaluation worth at least 50 per cent of the course grade and including at least two at the 600 level. All courses require the approval of the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Courses for which advanced credit is being sought must not have been used for any previously completed degree/diploma/certificate credential.

### Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Faculty.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

All requirements for the Graduate Certificate program must be completed within three calendar years of initial registration.

#### Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students, although funding for course-based LLM and Graduate Certificate students will very rarely be provided. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar or the Faculty of Law Calendar or [website](#).

Students applying for scholarships must submit their scholarship applications to the Faculty of Law by the deadlines for completed admission applications.

## Overview

### General Program Information

The Doctor of Nursing program is aimed at developing and preparing nurse leaders and innovators with significant leadership experience for senior roles in healthcare and related organizations.

The Doctor of Nursing program is delivered online allowing students to pursue this degree while continuing to work.

Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/doctor-nursing>.

In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires:

- a) Applicants to have at least three years of healthcare or related organization experience in a mid-level to senior leadership role.
- b) A Master's Degree in Nursing, Psychiatric Nursing or related fields, or an equivalent from a recognized institution. A grade point average equivalent to 3.00 or better (on the University of Calgary 4.0 system) is required. See [Qualifications](#) for additional information.
- c) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.
- d) A current resume/curriculum vitae with examples of the applicant's written scholarly work such as publications, research reports, course assignments, etc.
- e) Two reference letters, one academic and one professional.
- f) A two-page personal statement outlining objectives, intent and commitment to the DN program.
- g) An interview with the Graduate Admissions and Review Committee.
- h) A letter of commitment from the identified supervisor indicating willingness to provide supervision throughout the program of study.

i) Applicants should have successfully completed graduate-level courses in quantitative and qualitative research methods and statistics.

See website for additional information.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires the following:

21 units of courses:

**Complete ALL of the following Courses:**

- NURS741 - Leading Innovation & Transformation  
**AND** NURS742 - Technology & Healthcare Information  
**AND** NURS743 - The Business of Healthcare  
**AND** NURS744 - Health Policy & Advocacy  
**AND** NURS745 - Innovation, Improvement & Implementation Science  
**AND** NURS746 - Seminar I Project Development  
**AND** NURS747 - Seminar II Knowledge Mobilization

#### Additional Comments:

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the program.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Applicants must include requests for [advanced credit](#), accompanied by a rationale, when they apply for admission. For courses taken outside the University of Calgary, applicants must provide official transcripts and a copy of the course outline detailing the course description, objectives, assignments, readings, etc.

### Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

### Credit for Undergraduate Courses

Credit will not be given for undergraduate-level courses.

### Time Limit

The expected completion time is three years; maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Doctor of Nursing students will be assigned a Faculty of Nursing member to commit to their supervision following admission to the program. In addition, a workplace or related mentor will be identified by the student and/or faculty supervisor/supervisory committee once the student has entered the DN program. This individual will normally hold a senior position within an organization relevant to the student's planned work-integrated research project. This individual, a knowledge expert, will be considered an **Advisory Member** of the student's supervisory committee, as outlined by the Faculty of Graduate Studies. The Advisory Member will attend committee meetings and examinations but will serve in a non-voting capacity.

## Candidacy

The Doctoral candidacy examination has a written and an oral component.

The student will produce a manuscript that may be submitted for publication. The manuscript will be focused on exploring and critically evaluating literature related to the student's research project. Students are expected to defend their work in an oral public presentation and a private oral examination with the supervisory committee.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students in line with the University's Equity, Diversity, and Inclusivity initiatives. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

The Master of Nursing (MN), course-based is offered online, via a Laddered Certificate Pathway

The course-based Master of Nursing is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-master-nursing-course-based>.

In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires that an applicant must:

- a) Be a Registered Nurse or Registered Psychiatric Nurse holding a baccalaureate degree, normally in nursing.
- b) Have completed [GCERT Adva](#) and [GCERT Adva](#) with a minimum GPA of 3.0.
- c) Registered Nurses must be eligible for active nursing registration in Alberta (registrants in the program must provide proof of active CARNA registration or equivalent each year); Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent each year.
- d) Have completed one undergraduate course (3 units) in statistics with a grade of "C" or better.
- e) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.
- f) Have an interview(s) with a faculty member, if requested by the Faculty.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires, at minimum, successful completion of the following core courses:

**Complete ALL of the following Courses:**

- NURS630 - Quantitative Research and Statistics  
**AND** NURS632 - Writing Proposals for the Nursing Profession  
**AND** NURS635 - Implementation Science for Health Professionals  
**AND** NURS683 - Qualitative Designs And Analyses

Note: Nursing 690 should be taken instead of Nursing 635 if Nursing 660 is not completed in Advanced Nursing Practice I or II Graduate Certificates.

#### Additional Comments:

Each student is expected to complete the online seminars Academic Scholarly Writing and Academic Integrity within the first two weeks of the program (if not completed in Advanced Nursing Practice I or II Graduate Certificates).

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Applicants must include requests for [Advanced Credit](#), accompanied by a rationale, when they apply for admission. For courses taken outside the University of Calgary, applicants must provide official transcripts and a copy of the course outline detailing the course description, objectives, assignments, readings, etc.

### Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.  
The use of the CG grade will not affect students' ability for internal awards.

## Credit for Undergraduate Courses

Under special circumstances, with the consent of the Faculty, students may take undergraduate courses, normally at the senior or 500-level, for the Master of Nursing degree.

## Time Limit

Expected completion time for full-time students in the Master of Nursing course-based program is one year. Maximum completion time is two years.

## Supervisory Assignments

No supervisor will be assigned.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing [Website](#) prior to each competition deadline. The application deadline for internal scholarships is February 1. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

The Master of Nursing thesis-based program offers a focused supervised research experience.

Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-master-nursing-thesis-based>.

In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires that an applicant must:

- a) Be a Registered Nurse or a Registered Psychiatric Nurse holding a baccalaureate degree, normally in nursing;

- b) Registered Nurses must be eligible for active nursing registration in Alberta (registrants in the program must provide proof of active CARNA registration or equivalent each year); Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent each year;
- c) Have completed one undergraduate course (3 units) in statistics with a grade of "C" or better;
- d) Submit two references, one from someone capable of assessing the applicant's academic and research ability, normally an academic, and one from someone who can attest to the applicant's nursing practice and expertise;
- e) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in writing courses.
- f) Have an interview(s) with a faculty member, if requested by the Faculty.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' **requirements**, the Faculty of Nursing requires, at minimum, successful completion of the following core courses:

##### Complete ALL of the following Courses:

- NURS611 - Theoretical Knowledge for Advanced Nursing Practice  
**AND** NURS630 - Quantitative Research and Statistics  
**AND** NURS632 - Writing Proposals for the Nursing Profession  
**AND** NURS683 - Qualitative Designs And Analyses  
**AND** NURS690 - Cultivating Personal Leadership II

##### Additional Comments:

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must include requests for **advanced credit**, accompanied by a rationale, when they apply for admission. For courses taken outside the University of Calgary, applicants must provide official transcripts and a copy of the course outline detailing the course description, objectives, assignments, readings, etc.

### Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

## Credit for Undergraduate Courses

Under special circumstances, with the consent of the Faculty, students may take undergraduate courses, normally at the senior or 500-level, for the Master of Nursing degree.

## Time Limit

Expected completion time is three years. Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

- a) Students will be assigned a permanent supervisor throughout their program of study.
- b) A supervisory committee must be struck for all MN thesis students no later than three months after the appointment of supervisor.

## Research Proposal Requirements

Students must receive formal approval of their research proposals from the supervisory committee before proceeding to ethical review and implementation of the project. The approved proposal will be housed in the Research Office, Faculty of Nursing.

Students whose research involves human subjects must receive ethics approval from the University of Calgary Conjoint Health Research Ethics Board.

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The final thesis examination is open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing Website prior to each competition deadline. The application deadline for internal scholarships is February 1. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

The Doctor of Philosophy program is designed to educate professionals for excellence in nursing scholarship through original research related to specialized practice with identified client populations.

Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/nursing-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires that an applicant must:

- a) Normally be a Registered Nurse.
- b) Submit a study plan outlining the areas of proposed concentration, goals in undertaking doctoral work, initial intentions regarding course work, and a statement of the preliminary plans for thesis research.
- c) Provide examples of the applicant's written scholarly work such as publications, research reports, course assignments, etc.
- d) Provide a curriculum vitae.
- e) Provide a letter of commitment from the identified supervisor indicating willingness to provide supervision throughout the program of studies and supporting the applicant's study plan.
- f) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.
- g) Have successfully completed one graduate-level course (3 units) in quantitative methods, one graduate-level course (3 units) in qualitative methods, plus one graduate-level course (3 units) in statistics. Exceptions may be considered, but the onus will be on the applicant to provide sufficient evidence to warrant exception. Deficiencies must be successfully eliminated prior to or in the first year of the doctoral program.
- h) Submit three references, one of which must be from the applicant's supervisor of their master's program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires completion of 15 units of coursework:

**Complete ALL of the following Courses:**

- NURS721 - Advanced Quantitative Research Methods  
**AND** NURS744 - Health Policy & Advocacy  
**AND** NURS783 - Advanced Qualitative Research Methods

**AND NURS724 - Philosophy, Knowledge and Research in Nursing**

**AND NURS726 - Developing a Scholarly e-Portfolio**

Baccalaureate and non-nursing master's prepared applicants must complete additional coursework beyond the five core courses. Applicants are individually assessed. The number and types of additional courses required will vary according to the applicant's academic, research and practice background as well as the proposed research plan.

#### Additional Comments:

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the program.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Applicants must include requests for advanced credit, accompanied by a rationale, when they apply for admission. For courses taken outside the University of Calgary, applicants must provide official transcripts and a copy of the course outline detailing the course description, objectives, assignments, readings, etc.

### Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the Flexible Grade Option (CG Grade) for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

### Time Limit

Expected completion time for doctoral students is four years; maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Doctoral students require a Faculty of Nursing member to commit to their supervision as a condition of admission.

### Research Proposal Requirements

Doctoral students must have their research proposals approved in principle by their supervisory committee prior to candidacy. Students must receive formal approval of their research proposals from the supervisory committee before proceeding to ethical review and implementation of the project. The approved proposal will be housed in the Research Office, Faculty of Nursing.

Students whose research involves human subjects must receive ethics approval from the University of Calgary Conjoint Health Research Ethics Board.

### Required Examinations

#### Candidacy

After completion of the student's coursework and approval of the thesis research proposal, a candidacy examination with a written and an oral component is required.

For complete details of the examination format and other candidacy requirements visit: [nursing.ucalgary.ca/current-students/graduate/managing-my-program/examinations](https://nursing.ucalgary.ca/current-students/graduate/managing-my-program/examinations).

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The final thesis examination is open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing Website prior to each competition deadline. The application deadline for internal scholarships is February 1. Students admitted to the doctoral program are highly encouraged to seek external funding to support their studies and research. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Network Security, [GCERT Data](#) or [GCERT Soft](#) may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the [Master of](#) program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/network-security-cert>.

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.

- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

12 units of coursework consisting of:

**Complete ALL of the following Requirement Sets:**

- Network Security GC Courses

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

Advanced credit will not normally be given for the Network Security Graduate Certificate.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For this Graduate Certificate program, credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

## Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort. The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- A completed Bachelor of Music degree (or equivalent).
- A live audition or video/audio recording. Repertoire for the audition must contain representative works from a variety of historical periods and must demonstrate an advanced level of technical accomplishment. Recordings should be approximately 20-30 minutes in length. Live auditions are scheduled for early February. Specific dates and times can be arranged by contacting the Graduate Program Administrator at 403.220.5422 or email <mailto:artsgradsc@ucalgary.ca>.
- One-page letter detailing their specific reasons for pursuing graduate study.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- **MUSI621 Adv Performance Practicum I, MUSI623 Adv Performance Practicum II and MUSI631 Res Tech & Biblio of Music**
- 6 units of graduate courses in Music Theory and Composition, Sonic Arts or Music History and Literature
- 3-unit graduate Music course, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses **MUSI661 Independent Study** and **MUED655 Independent Study**.

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

Graduate students in the MMus Performance program are required to participate in one of the large ensembles for the duration of their degree and pianists are required to volunteer as accompanists. In lieu of the large ensemble requirement, pianists have the option to accompany two hours per week in a vocal or instrumental studio. Another option for pianists is to accompany a Junior or a Senior recital. The head of the performance area will make all ensemble or accompanying assignments. Students in graduate programs other than performance are not required to participate in an ensemble, although such participation is encouraged.

All master's degree programs require a thesis or recital or project equivalent (see below), prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be two public recitals featuring solo performances and chamber music. At least one Canadian work should be included in one of the recitals. The examining committee will evaluate the candidate's performance in both of the recitals. Recital proposals are to be submitted to the Graduate Program Administrator for approval by the Graduate Committee at least two months before each performance.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the Flexible Grade Option (CG Grade) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is five years for the Master of Music programs.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### Required Examinations

A comprehensive oral examination based upon the literature of the instrument and more extensively upon the repertoire of the approved recital programs is required. This examination must be satisfactorily completed at least six weeks before the date of the second public performance required for the degree.

### Thesis Examinations

In addition to Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar and the program's website.

## Overview

### General Program Information

### Specializations:

# UCalgary

- Astrophysics
- Physics
- Space Physics

The MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-master-science-course-based>.

In addition to Faculty of Graduate Studies and Faculty of Science **requirements**, the Department requires:

- A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.
- Two reference letters.

Applicants to the Master of Science program whose background does not include the equivalent of an undergraduate honours degree in the proposed area of study may require additional make-up courses. Such applicants should consult with the department regarding their admission status.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements** and the Faculty of Science requirements, the Department requires:

All students must complete three components of the Scientific Communication Skills course, [PHYS691.11 Effective Scientific Speaking](#), [PHYS691.12 Graduate Seminar](#) and [PHYS691.13 Effective Scientific Writing](#), during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

Students must complete 30 units of coursework, which will include:

##### Complete ALL of the following Courses:

- PHYS605 - Advanced Data Analysis  
**AND** PHYS609 - Advanced Classical Mechanics  
**AND** PHYS611 - Statistical Physics  
**AND** PHYS613 - Electrodynamics

Complete at least 1 of the following courses:

- PHYS615 - Non-Relativistic Quantum Mechanics  
OR PHYS617 - Relativistic Quantum Mechanics

**Additional Comments:**

Complete 15 units within the area of specialization:

*Astrophysics* – **PHYS699 Project In Physics** and 12 units selected from Astrophysics, **PHYS629 Gravitation**, **SPPH671 Physics Of The Magnetosphere**. With permission, up to 6 units of Astrophysics may be at the 500 level. If the topic is appropriate, Physics 698 may be used.

*Physics* – **PHYS699 Project In Physics** plus 6 units of Astrophysics, Physics, or Space Physics courses (these may be at the 500 level) plus 6 units of Physics courses, at the 600 level or above.

*Space Physics* – **PHYS699 Project In Physics**, **PHYS509 Plasma Physics** and 9 units selected from Space Physics or Physics related to space physics (with permission, 3 units may be at the 500 level).

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make **Advanced Credit** requests as part of the admission process.

**Flexible Grade Option (CG Grade)**

Students admitted to the PHAS Graduate Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

**Time Limit**

Expected completion time is three years in a course-based program. Maximum completion time is six years.

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program.

The MSc program has a supervisory committee requirement which follows the same requirements and rules as the PhD.

## Required Examinations

Two weeks before the comprehensive oral examination, students must write a three-hour, closed-book comprehensive examination, prepared by the Departmental Graduate Affairs Committee in collaboration with the supervisor.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

#### Specializations:

- Astrophysics
- Medical Physics
- Physics
- Radiation Oncology Physics
- Space Physics
- [Comp Neuro](#)
- [Medical Im](#)

The PhD MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-master-science-thesis-based>.

In addition to Faculty of Graduate Studies and Faculty of Science [requirements](#), the Department requires:

- A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.
- Two reference letters.

Applicants to the Master of Science program whose background does not include the equivalent of an undergraduate honours degree in the proposed area of study may require additional make-up courses. Such applicants should consult with the department regarding their admission status.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:  
All students must complete three components of the Scientific Communication Skills course, [PHYS691.11 Effective Scientific Speaking](#), [PHYS691.12 Graduate Seminar](#) and [PHYS691.13 Effective Scientific Writing](#), during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

a) All students must complete the core courses:

Earn at least 6 credits from the following:

- PHYS605 - Advanced Data Analysis  
OR PHYS609 - Advanced Classical Mechanics  
OR PHYS611 - Statistical Physics  
OR PHYS613 - Electrodynamics  
OR PHYS615 - Non-Relativistic Quantum Mechanics  
OR PHYS617 - Relativistic Quantum Mechanics

Note: Only one of Physics 615 and 617 can be taken as a core course.

#### Additional Comments:

b) In addition, students must complete course requirements for their specialization as described below.

*Astrophysics, Physics, and Space Physics*

- Elective courses: 6 units at the 500 or 600 level, as approved by the Graduate Program Director.

*Medical Physics*

- Specialization courses: [MDPH623 Radiotherapy Physics I](#) and [MDPH625 Radiation Oncology Physics](#); and
- Elective course: 3 units at the 500 or 600 level, as approved by the Graduate Program Director.

*Radiation Oncology Physics*

- Specialization courses: [MDPH623 Radiotherapy Physics I](#), [MDPH625 Radiation Oncology Physics](#), [MDPH633 Radiation Oncology Physics Lab](#), [MDPH637 Anatomy & Statistics For MdPh](#), [MDPH638 Imaging Rad'n Oncology Phys](#), [MDPH639 Radiobio & Rad Safety for MdPh](#); and
- Clinical rotation: [MDPH632 Clin Rotate Radiation OncoPhys](#)

#### Additional Requirements

##### Type

##### Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process.

### Credit for Undergraduate Courses

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

### Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Expected completion time is two years for full-time students in a thesis Master's program.

Maximum completion time is four years.

### Supervisory Assignments and Thesis Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program.

The MSc program has a supervisory committee requirement which follows the same requirements and rules as the PhD.

### Thesis Examinations

In addition to Faculty of Graduate Studies regulations for **Thesis Examinations**, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The thesis examination is open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://www.ucalgary.ca/rop/>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://www.ucalgary.ca/future-students/graduate/explore-programs/radiation-oncology-physics-certificate-course-based>.

In addition to Faculty of Graduate Studies' admission [requirements](#), and Faculty of Science requirements, the Department requires:

- a) A University of Calgary Honours background in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- b) For some applicants, a satisfactory score on the Advanced Physics Graduate Record Examination.
- c) Two reference letters.

In addition, applicants must possess a PhD in Physics, Medical Physics, Biophysics, or Biomedical Engineering. Applicants with PhDs in sciences other than those listed above may consult with the department regarding possible admission. A minimum GPA of 3.50 over an applicant's last 60 units of course work is required before an applicant may be considered for admission; however, exceptional students with extenuating circumstances may be considered.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and Faculty of Science requirements, the Department requires:

19.5 units consisting of:

##### Complete ALL of the following Courses:

- MDPH623 - Radiotherapy Physics I  
**AND** MDPH625 - Radiation Oncology Physics  
**AND** MDPH633 - Radiation Oncology Physics Lab  
**AND** MDPH637 - Anatomy and Statistics for Medical Physicists  
**AND** MDPH638 - Imaging for Radiation Oncology Physics  
**AND** MDPH639 - Radiobiology and Radiation Safety for Medical Physicists  
**AND** MDPH632 - Clinical Rotation in Radiation Oncology Physics

The Fall schedule consists of MDPH 623, 638 and 639.

The Winter schedule consists of MDPH 625, 632, 633, 637 and Ethics and Errors (offered not for credit)

No substitutions accepted.

Graduation requires successful completion of all required courses with a minimum grade of "B".

#### Additional Comments:

Regular attendance at Radiation Oncology Rounds, Grand Rounds and non-credit training sessions such as the Ethics and Errors course (winter term).

#### Additional Requirements

##### Type

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

Advanced Credit for a maximum of 3 units may be given.

### **Flexible Grade Option (CG Grade)**

Students admitted to the PHAS Graduate Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### **Credit for Undergraduate Courses**

No credit will be given for undergraduate-level courses.

### **Time Limit**

Expected completion time is 8 months (two terms) for the Postdoctoral Certificate program.

#### **Supervisory Assignments**

**Type**

Completion Requirement

**Additional Comments:**

All students will be supervised by the Postdoctoral certificate co-ordinator or delegate co-ordinator for the duration of their program.

#### **Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance is not available for this program.

## **Overview**

### **General Program Information**

\*The Postdoctoral Diploma is a continuous program with no scheduled break.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://www.ucalgary.ca/rop/>

## **Admissions**

### **Program Admissions Information**

Application deadlines are available on the Future Students website: <https://www.ucalgary.ca/future-students/graduate/explore-programs/radiation-oncology-physics-diploma-course-based>.

In addition to Faculty of Graduate Studies' admission [requirements](#), and Faculty of Science requirements, the Department requires:

- a) A University of Calgary Honours background in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- b) For some applicants, a satisfactory score on the Advanced Physics Graduate Record Examination.
- c) Two reference letters.

In addition, applicants must possess a PhD from a CAMPEP accredited graduate program or equivalent and an appointment as an Associate Medical Physicist by the Alberta Health Services.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and Faculty of Science requirements, the Department requires:

18 units consisting of:

**Complete ALL of the following Courses:**

- MDPH711 - Clinical Competency I  
**AND** MDPH712 - Clinical Competency II  
**AND** MDPH721 - Clinical Projects I  
**AND** MDPH722 - Clinical Projects II  
**AND** MDPH731 - Radiation Oncology Physics Tutorials  
**AND** MDPH741 - Treatment Planning

No substitutions accepted.

Graduation requires successful completion of all required courses with a minimum grade of "B".

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) is not given.

### Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate-level courses.

### Time Limit

Expected completion time is two years for the Postdoctoral Diploma program.

### Supervisory Assignments

#### Type

Completion Requirement

#### Additional Comments:

Registrants are supervised by the Director of Medical Physics or designate, Tom Baker Cancer Centre.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is not available for this program.

## Overview

### General Program Information

#### Specializations:

- Astrophysics
- Medical Physics
- Physics
- Radiation Oncology Physics
- Space Physics
- Comp Neuro
- Medical Im

The PhD MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies' admission requirements, and Faculty of Science requirements, the Department requires:

- a) A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.

b) Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.

c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

- a) A minimum of 6 units at the 600 level or higher for students who hold a master's degree.
- b) A minimum of 18 units at the 600 level or higher for those entering the doctoral program without a master's degree.
- c) For students specializing in **Radiation Oncology Physics** who do not hold an accredited MSc degree in Radiation Oncology Physics:
  - [MDPH623 Radiotherapy Physics I](#), [MDPH625 Radiation Oncology Physics](#), [MDPH632 Clin Rotate Radiation OncoPhys](#), [MDPH633 Radiation Oncology Physics Lab](#), [MDPH637 Anatomy & Statistics For MdPh](#), [MDPH638 Imaging Rad'n Oncology Phys](#) and [MDPH639 Radiobio & Rad Safety for MdPh](#); and
  - 6 units from [PHYS609 Advanced Classical Mechanics](#), [PHYS611 Statistical Physics](#), [PHYS613 Electrodynamics](#), [PHYS615 Non-Relativistic Quantum Mech](#), [PHYS617 Relativistic Quantum Mechanics](#) (only one of Physics 615 and 617 can be taken for credit).

All students must complete three components of the Scientific Communication Skills course, [PHYS691.11 Effective Scientific Speaking](#), [PHYS691.12 Graduate Seminar](#) and [PHYS691.13 Effective Scientific Writing](#), during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process.

### Credit for Undergraduate Courses

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

### Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is four years in a doctoral program. Maximum completion time is six years.

### Supervisory Assignments and Thesis Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program.

## Candidacy

Doctoral students must complete a written thesis proposal and an oral Field of Study examination. For complete details of the candidacy requirements, see [https://phas.ucalgary.ca/graduate/programs/doctoral\\_phd\\_thesis\\_based/candidacy\\_exam](https://phas.ucalgary.ca/graduate/programs/doctoral_phd_thesis_based/candidacy_exam).

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The thesis examination is open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

The course-based Master of Arts degree may be completed on a full-time or a part-time basis.

#### Specializations:\*

- History and Philosophy of Science
- Philosophy of Religion

\*These two specializations are offered in co-operation with the Departments of History and Classics and Religion respectively. Selecting a specialization is not mandatory.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](http://DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary (ucalgary.ca))

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-course](http://grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-course)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- b) Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- c) A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- d) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

A minimum of 30 units, including at least 6 units in the History of Philosophy and 6 units in 20th Century or Contemporary Philosophy.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The Department does not normally give [advanced credit](#) for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level required for admission. Normally, advanced credit may be given for a maximum of 9 units.

### Flexible Grade Option (CG Grade)

The Department of Philosophy will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

## Time Limit

Expected completion time for full-time students in a master's course-based program is two years. Maximum completion time is six years.

### Supervisory Assignments

#### Type

Completion Requirement

#### Additional Comments:

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A supervisory committee at the master's level is not normally appointed. When such a committee is deemed necessary, the Dean's approval must be obtained.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Course-based MA students normally do not receive department funding.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

#### Specializations:\*

- History and Philosophy of Science
- Philosophy of Religion

\*These two specializations are offered in co-operation with the Departments of History and Classics and Religion respectively. Selecting a specialization is not mandatory.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-thesis](https://grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-thesis).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Department requires:

- Students must complete a minimum of 21 units of coursework, including [PHIL603 Graduate Proseminar](#) (normally taken in the first year in program) and Philosophy 699 (normally taken in the second year). Incoming students determine coursework in consultation with the Graduate Program Director.
- In the specializations History and Philosophy of Science and Philosophy of Religion, courses taken in History or Religious Studies, respectively, may, with departmental approval, count as fulfilling course requirements for the degree.
- Students in the specialization in History and Philosophy of Science must show competence in logic. This requirement may be met by:
  - successfully completing [PHIL677 Metalogic](#) or [PHIL679 Topics in Logic](#) as part of the program course requirements; or
  - serving as a Graduate Assistant (Teaching) for [PHIL279 Logic I](#); or
  - completing [PHIL279 Logic I](#) or [PHIL377 Elementary Formal Logic](#) (with a grade of B or better) in addition to the program course requirements\*.

*\*Students who have completed Philosophy 279 or 377 (or its equivalent at another university) may request an exemption from the logic requirement from the Graduate Program Director.*

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The Department does not normally give [advanced credit](#) for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course

work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level required for admission. Normally, advanced credit may be given for a maximum of 9 units.

### Flexible Grade Option (CG Grade)

The Department of Philosophy will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

### Time Limit

Expected completion time for full-time students in a master's thesis-based program is two years. Maximum completion time is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A supervisory committee at the master's level is not normally appointed. When such a committee is deemed necessary, the Dean's approval must be obtained.

### Thesis Examinations

In addition to the Faculty of Graduate studies [thesis requirements](#), the program requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Thesis-based MA students are guaranteed funding for the first two years of their program.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

Satisfactory academic progress in the student's program is required for funding

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](http://DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary (ucalgary.ca))

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-phd](http://grad.ucalgary.ca/future-students/explore-programs/philosophy-phd)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- Students must normally complete a minimum of 18 units for students with a Master of Arts degree, or a minimum of 36 units for students entering directly from an honours undergraduate program, including [PHIL603 Graduate Proseminar](#) (normally taken in the first year in program).
- All students must show competence in logic. This requirement may be met by:
  - successfully completing [PHIL677 Metalogic](#) or [PHIL679 Topics in Logic](#) as part of the program course requirements; or
  - serving as a Graduate Assistant (Teaching) for [PHIL279 Logic I](#); or
  - completing [PHIL279 Logic I](#) or [PHIL377 Elementary Formal Logic](#) (with a grade of B or better) in addition to the program course requirements\*.

*\*Students who have completed Philosophy 279 or 377 (or its equivalent at another university) may request an exemption from the logic requirement from the Graduate Program Director.*

- In addition to a) and b), students must complete [PHIL700 Doctoral Research Prof Development](#) after course and candidacy requirements are completed. Philosophy 700 is normally taken in the year after advancing to candidacy.

Note: Normally, in both master's and doctoral programs, no more than 3 units of Directed Reading can be taken to satisfy the minimum course requirement.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

The Department does not normally give advanced credit for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level required for admission. Normally, advanced credit may be given for a maximum of 9 units.

#### **Flexible Grade Option (CG Grade)**

The Department of Philosophy will allow students to pursue the **Flexible Grade Option (CG Grade)**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### **Credit for Undergraduate Courses**

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

#### **Time Limit**

Expected completion time for full-time students is four years in a doctoral program. Maximum completion time is six years.

#### **Supervisory Assignments and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A doctoral student shall be under the general supervision of a supervisory committee. After consultation with the student, the supervisor will submit a list of possible members of the supervisory committee to the Graduate Studies Committee for approval. The supervisory committee should be established as soon as possible and no later than three months after the supervisor's appointment.

#### **Candidacy**

In addition to Faculty of Graduate Studies **candidacy** requirements, the program requires:

Doctoral students must complete two field of study papers, a field of study oral examination, a written thesis proposal and an oral examination on the thesis proposal. For complete details of the candidacy requirements, see the **Philosophy Doctoral Candidacy Requirements**.

## Thesis Examinations

In addition to the Faculty of Graduate studies [thesis requirements](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

PhD students are guaranteed funding for the first four years of their program.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

Satisfactory academic progress in the student's program is required for funding.

## Overview

### General Program Information

The MA, course-based is a continuous program with no scheduled break. The MA programs are offered as full-time programs only.

Both course-based and thesis-based MA programs include significant independent research, are SSHRC-eligible, and are appropriate for students who intend to pursue doctoral studies.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/political-science-ma-course>.

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A minimum grade point average of 3.40 on a four-point scale over the last 60 units taken in the applicant's undergraduate program.
- b) Normally a four-year BA in Political Science or a strong background in Political Science of at least 30 units in Political Science courses. Special consideration may be given to those who have not achieved this background.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) Two reference letters.
- e) A statement of research interests.

f) Sample of written work, preferably a paper submitted for a Political Science course.

g) For applicants to the thesis-based Master of Arts, email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department normally requires:

A minimum of 24 units of coursework, which must include the following:

- at least 18 units of graduate courses in Political Science;
- at least 6 units and no more than 9 units must be in the student's Primary Field (one of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
- a maximum of 6 units as reading courses;
- **POLI697 Major Research Paper** (Major research paper of maximum 9,000 words, exclusive of notes and bibliography);
- **POLI691 Quantitative Analysis In Poli** (see Advanced Credit).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

### Flexible Grade Option (CG Grade)

The department of Political Science will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Applicants with knowledge of research methods equivalent to **POLI399 Quantitative Research Methods** may be given a course exemption in **POLI691 Quantitative Analysis In Poli**. Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

### Time Limit

Expected completion time is one year for the course-based MA program. Maximum completion time is six years.

## Supervisory Assignments

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

A Supervisor should normally be appointed by January 15th of the first year of registration.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

The MA program is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/political-science-ma-thesis](http://grad.ucalgary.ca/future-students/explore-programs/political-science-ma-thesis).

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A minimum grade point average of 3.40 on a four-point scale over the last 60 units taken in the applicant's undergraduate program.
- b) Normally a four-year BA in Political Science or a strong background in Political Science of at least 30 units in Political Science courses. Special consideration may be given to those who have not achieved this background.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) Two reference letters.
- e) A statement of research interests.
- f) Sample of written work, preferably a paper submitted for a Political Science course.
- g) For applicants to the thesis-based Master of Arts, email confirmation from a potential supervisor who is interested in

supervising the student's work is required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Department normally requires the following:

a) A minimum of 15 units of coursework, which must include the following:

- at least 9 units of graduate courses in Political Science;
- at least 6 units and no more than 9 units must be in the student's Primary Field (one of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
- a maximum of 6 units as reading courses;
- **POLI691 Quantitative Analysis In Poli** (see Advanced Credit);
- and up to 3 units of graduate courses in any area;

b) A written thesis (maximum 30,000 words).

c) Thesis Oral Examination.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

### Flexible Grade Option (CG Grade)

The department of Political Science will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Course

Applicants with knowledge of research methods equivalent to **POLI399 Quantitative Research Methods** may be given a course exemption in **POLI691 Quantitative Analysis In Poli**. Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

### Time Limit

Expected completion time is two years for the thesis-based MA program. Maximum completion time is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An incoming student for the thesis-based program must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee (if applicable) must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

The PhD program is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/political-science-phd](http://grad.ucalgary.ca/future-students/explore-programs/political-science-phd).

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- a) A minimum grade point average of 3.70 on a four-point scale over a Master's degree.
- b) Normally a Master of Arts in Political Science or a strong background in Political Science. Special consideration may be given to those who have not achieved this background.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- d) Two reference letters.
- e) A statement of research interests.
- f) Sample of written work, preferably a paper submitted for a Political Science course.
- g) Email confirmation from a potential supervisor who is interested in supervising the student's work.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department normally requires:

a) A minimum of 18 units of coursework, which must include::

- at least 12 units of graduate courses in Political Science;
- at least 6 units must be in the student's chosen Primary Field and at least 6 units must be in the student's chosen Secondary Field (Primary and Secondary Fields will consist of any two of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
- a maximum of 6 units as reading courses;
- **POLI691 Quantitative Analysis In Poli** (see Advanced Credit);
- and up to 3 units of graduate courses in any area.

b) Field of Study Written Examinations.

c) Field of Study Oral Examination.

d) Thesis Proposal and Meeting.

e) Language Requirement (if applicable).

f) Written Thesis.

g) Thesis Oral Examination.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

## Flexible Grade Option (CG Grade)

The department of Political Science will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Applicants with knowledge of research methods equivalent to **POLI399 Quantitative Research Methods** may be given a course exemption in **POLI691 Quantitative Analysis In Poli.** Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

## Time Limit

Expected completion time is four years for the PhD program. Maximum completion time is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An incoming student must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

The Supervisory Committee should be appointed as quickly as possible but no later than three months after the appointment of the Permanent Supervisor.

### Research Proposal

Doctoral students must complete a written Thesis Proposal, which is approved by their Supervisory Committee in a Thesis Proposal Meeting. For more information, see [poli.ucalgary.ca/graduate/current-program-rules-policies](https://poli.ucalgary.ca/graduate/current-program-rules-policies).

### Doctoral Field of Study Examinations

Political Science doctoral students must successfully complete two Field of Study (FoS) written examinations: (i) one written FoS examination in their chosen Primary Field; and, (ii) a second written FoS examination in their chosen Secondary Field. In addition, students must successfully complete a single oral FoS examination which treats both their Primary and Secondary Fields. For more information, see: <https://arts.ucalgary.ca/political-science/current-students/graduate/phd-program-requirements/phd-candidacy>.

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee (if applicable) must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

#### Specializations:

- Industrial/Organizational Psychology
- [Medical Im](#)
- [Wearable T](#)
- [Comp Neuro](#)

Email address: <mailto:artsgradsc@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for the submission of completed applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/psychology-master-science-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/psychology-master-science-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A four-year undergraduate degree in Psychology or related discipline. Students not having an undergraduate degree in Psychology must demonstrate adequate background in psychology. Those needing additional work may be required to take particular courses.
- A minimum admission grade point average of 3.40 on a four-point scale over the last 60 units.
- An undergraduate course in statistics/experimental design.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), an IELTS score of 7.5, a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- Two academic reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, the Department requires students to complete no fewer than 12 units of coursework, which include:

**Complete ALL of the following Courses:**

- PSYC600 - Professional Development

**Earn at least 6 credits from the following:**

- PSYC607 - Advanced Research Design and Methodology in Psychology  
**OR** PSYC611 - Advanced Qualitative Inquiry in Psychology  
**OR** PSYC613 - Signal and Systems Analysis in Behavioural Research  
**OR** PSYC615 - Analysis of Variance  
**OR** PSYC617 - Multivariate Data Analysis  
**OR** PSYC619 - Special Topics in the Design of Psychological Research

**Earn at least 3 credits from the following:**

- PSYC601 - History of Psychology  
**OR** PSYC620 - Advanced Topics in Brain and Cognitive Sciences  
**OR** PSYC623 - Functional Neuroanatomy  
**OR** PSYC630 - Advanced Topics in Social and Theoretical Psychology  
**OR** PSYC639 - Adv Industrial & Organize Psyc  
**OR** PSYC700 - Integrative Seminar in Psychology  
**OR** PSYC710 - Integrative Seminar in Psychology  
**OR** PSYC720 - Seminar in Brain and Cognitive Sciences  
**OR** PSYC730 - Seminar in Social and Theoretical Psychology  
**OR** PSYC739 - Seminar in Industrial/Organizational Psychology

These courses may be substituted with seminar courses from other departments with approval by the supervisor and the Graduate Program Director.

**Additional Comments:**

## Industrial Organizational Specialization

I/O students in the MSc program are required to take 24 units with 6 units in research methods and statistics, 12 units in I/O Psychology (Psychology 639, 739), and 6 units outside the I/O area.

### Additional Program Information

#### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Psychology program in the Psychology Department will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for 500-level undergraduate courses up to a maximum of three courses.

## Time Limit

Expected completion time is two years for the Master of Science program.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An interim supervisor is assigned to each student at the time of admission. In no case will a student be admitted if an appropriate supervisor is not expected to be available. The shift from interim to permanent supervisor formally takes place at the end of the first year. The Graduate Program Director must approve the permanent supervisor.

Master's level students must have a supervisory committee consisting of the supervisor plus two other faculty members.

## Research Proposal

Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

All Master of Science students must formally present a thesis proposal not more than 14 months after admission to the program. The proposal must be typed and 10 to 30 double-spaced pages (12 pt font, reference list extra). Students must consult with their supervisors. The supervisory committee must approve the thesis proposal.

## Thesis Examinations

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following:

Thesis oral examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to submit their applications to the Department by January 15.

## Overview

### General Program Information

The Department accepts applicants who plan to remain full-time to the completion of their degree. The program does not offer a part-time option.

### Specializations:

- Industrial Organizational Specialization
- Medical Im
- Wearable T
- Comp Neuro

Email address: <mailto:artsgradsc@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for the submission of completed applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/psychology-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/psychology-doctor-philosophy-thesis-based)

In addition to the Faculty of Graduate Studies admission requirements and Faculty of Arts requirements, the program requires:

- A four-year undergraduate degree in Psychology or related discipline. Students not having an undergraduate degree in Psychology must demonstrate adequate background in psychology. Those needing additional work may be required to take particular courses.
- A minimum admission grade point average of 3.40 on a four-point scale over the last 60 units.
- An undergraduate course in statistics/experimental design.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), an IELTS score of 7.5, a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in each course.
- Two academic reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

#### Type

#### Completion Requirement

In addition to Faculty of Graduate Studies requirements and Faculty of Arts requirements, the Department requires students to complete no fewer than 12 units of coursework, which include:

#### Earn at least 6 credits from the following:

- PSYC601 - History of Psychology
- OR PSYC620 - Advanced Topics in Brain and Cognitive Sciences
- OR PSYC623 - Functional Neuroanatomy
- OR PSYC630 - Advanced Topics in Social and Theoretical Psychology
- OR PSYC639 - Adv Industrial & Organize Psyc
- OR PSYC700 - Integrative Seminar in Psychology
- OR PSYC710 - Integrative Seminar in Psychology

**OR PSYC720 - Seminar in Brain and Cognitive Sciences**  
**OR PSYC730 - Seminar in Social and Theoretical Psychology**  
**OR PSYC739 - Seminar in Industrial/Organizational Psychology**

- plus 6 units of elective courses.

The supervisor and the Graduate Program Director must approve all courses.

**Additional Comments:**

## Industrial Organizational Specialization

I/O students in the PhD program are required to take 12 units in I/O Psychology (**PSYC739 Sem Industrial/Organiz Psyc**), and 6 units outside of I/O Psychology that were not completed during the MSc program.

### Additional Program Information

#### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Psychology program in the Psychology Department will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit may be given for 500-level undergraduate courses up to a maximum of three courses.

## Time Limit

Expected completion time is two years for the Master of Science program and four years for the doctoral program. See **Time Limits**.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

An interim supervisor is assigned to each student at the time of admission. In no case will a student be admitted if an appropriate supervisor is not expected to be available. The shift from interim to permanent supervisor formally takes place at the end of the first year. The Graduate Program Director must approve the permanent supervisor.

## Research Proposal

Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

## Required Examinations

### Candidacy

Doctoral students must pass oral and written Field of Study examinations and must submit a written thesis proposal, which is approved by their Supervisory Committee in a Thesis Proposal Meeting. For further information see [Psychology Candidacy Requirements](#).

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following:

Thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to submit their applications to the Department by January 15.

## Overview

### General Program Information

The Graduate Certificate in Quantum Computing can be completed full- or part-time.

Students can choose to apply directly to one of the Quantum Computing credentials or complete the individual credentials via a ladder pathway.

### Laddered Pathway from the Graduate Certificate to the Graduate Diploma, and from the Graduate Diploma to the Master of Quantum Computing

Students who complete the Graduate Certificate in Quantum Computing may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Graduate Diploma in Quantum Computing program within 5 years of beginning the certificate.

Students who complete the Graduate Diploma in Quantum Computing may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted into the Master of Quantum Computing program within 5 years of beginning the first credential in the laddering process.

Email address: <mailto:prograd.science@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/current-students/graduate/graduate-science-centre>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/quantum-computing-certificate>.

Admission to all programs in Quantum Computing is competitive and meeting minimum requirements does not guarantee admission to any program.

In addition to Faculty of Graduate Studies [admission requirements](#), admission into each of the credentials requires:

- A four-year Bachelor's degree in science or engineering or equivalent from a recognized institution.
- A minimum admission grade point average of 3.0 on a 4.0 scale or equivalent calculated on the last 60 units completed.
- Successful completion of:
  - 3-unit undergraduate course in linear algebra (MATH 211 or equivalent)
  - 3-unit undergraduate course in computer programming (CPSC 231 or CPSC 217 or equivalent, or demonstrated equivalent professional experience in computer programming)
- Resume or CV.

**Note:** In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the programs in Quantum Computing (see [G.A.1 Qualifications](#)). The applicant must provide the Quantum Computing Program Director with evidence demonstrating the potential to successfully undertake these programs. An in-person interview may also be required with the Program Director.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Certificate requires 12 units of coursework:

##### Enroll in the following Course Sets:

- Quantum GC Courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) will not normally be given for any of the Quantum Computing credentials.

### Flexible Grade Option (CG Grade)

The Graduate programs in Quantum Computing will permit the **Flexible Grade Option (CG Grade)** for any course offered by the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be granted for undergraduate courses.

## Time Limits

The expected completion time for the Graduate Certificate in Quantum Computing is four months. The maximum completion time for the Certificate is two years from the start of the program.

## Supervisory Assignments

An academic coordinator is assigned to each cohort in the Graduate Certificate program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students enrolled in any of the Quantum Computing Graduate Credentials are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards.

For information on awards, see the **Awards and Financial Assistance** section.

## Overview

### General Program Information

The Graduate Diploma in Quantum Computing can be completed full- or part-time.

Students can choose to apply directly to one of the Quantum Computing credentials or complete the individual credentials via a ladder pathway.

### Laddered Pathway from the Graduate Certificate to the Graduate Diploma, and from the Graduate Diploma to the Master of Quantum Computing

Students who complete the Graduate Certificate in Quantum Computing may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Graduate Diploma in Quantum Computing program within 5 years of beginning the certificate.

Students who complete the Graduate Diploma in Quantum Computing may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted into the Master of Quantum Computing program within 5 years of beginning the first credential in the laddering process.

Email address: <mailto:prograd.science@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/current-students/graduate/graduate-science-centre>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/quantum-computing-diploma>.

Admission to all programs in Quantum Computing is competitive and meeting minimum requirements does not guarantee admission to any program.

In addition to Faculty of Graduate Studies [admission requirements](#), admission into each of the credentials requires:

- A four-year Bachelor's degree in science or engineering or equivalent from a recognized institution.
- A minimum admission grade point average of 3.0 on a 4.0 scale or equivalent calculated on the last 60 units completed.
- Successful completion of:
  - 3-unit undergraduate course in linear algebra (MATH 211 or equivalent)
  - 3-unit undergraduate course in computer programming (CPSC 231 or CPSC 217 or equivalent, or demonstrated equivalent professional experience in computer programming)
- Resume or CV.

**Note:** In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the programs in Quantum Computing (see [G.A.1 Qualifications](#)). The applicant must provide the Quantum Computing Program Director with evidence demonstrating the potential to successfully undertake these programs. An in-person interview may also be required with the Program Director.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
The Diploma requires 24 units of coursework:

##### Enroll in the following Course Sets:

- Quantum GC Courses  
**AND** Quantum GD Courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) will not normally be given for any of the Quantum Computing credentials.

### Flexible Grade Option (CG Grade)

The Graduate programs in Quantum Computing will permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be granted for undergraduate courses.

## Time Limits

The expected completion time for the Graduate Diploma in Quantum Computing is eight months (direct entry pathway), and four months for students laddering from the Graduate Certificate program. The maximum completion time for the Graduate Diploma is two years from the start of the Diploma program.

For students laddering from the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is 6 years from the start of the first credential (Graduate Certificate) in the laddering process.

## Supervisory Assignments

An academic coordinator is assigned to each cohort in the Graduate Diploma program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students enrolled in any of the Quantum Computing Graduate Credentials are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards.

For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The Master of Quantum Computing can be completed full- or part-time.

Students can choose to apply directly to one of the Quantum Computing credentials or complete the individual credentials via a laddered pathway.

### Laddered Pathway from the Graduate Certificate to the Graduate Diploma, and from the Graduate Diploma to the Master of Quantum Computing

Students who complete the Graduate Certificate in Quantum Computing may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Graduate Diploma in Quantum Computing program within 5 years of beginning the certificate.

Students who complete the Graduate Diploma in Quantum Computing may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted into the Master of Quantum Computing program within 5 years of beginning the first credential in the laddering process.

Email address: <mailto:prograd.science@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/current-students/graduate/graduate-science-centre>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website:

Master of Quantum Computing: <https://grad.ucalgary.ca/future-students/explore-programs/quantum-computing-masters>.

Admission to all programs in Quantum Computing is competitive and meeting minimum requirements does not guarantee admission to any program.

In addition to Faculty of Graduate Studies [admission requirements](#), admission into each of the credentials requires:

- A four-year Bachelor's degree in science or engineering or equivalent from a recognized institution.
- A minimum admission grade point average of 3.0 on a 4.0 scale or equivalent calculated on the last 60 units completed.
- Successful completion of:
  - 3-unit undergraduate course in linear algebra (MATH 211 or equivalent)
  - 3-unit undergraduate course in computer programming (CPSC 231 or CPSC 217 or equivalent, or demonstrated equivalent professional experience in computer programming)
- Resume or CV.

**Note:** In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the programs in Quantum Computing (see [G.A.1 Qualifications](#)). The applicant must provide the Quantum Computing Program Director with evidence demonstrating the potential to successfully undertake these programs. An in-person interview may also be required with the Program Director.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Master's requires 36 units of coursework:

##### Enroll in the following Course Sets:

- Quantum GC Courses  
**AND** Quantum GD Courses  
**AND** Quantum Master's Core Course  
**AND** Quantum Master's Internship Courses

Note: Students who acquire a paid internship are to register in QUAC 693/694; students who acquire an unpaid internship are to register in QUAC 695/696.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) will not normally be given for any of the Quantum Computing credentials.

### Flexible Grade Option (CG Grade)

The Graduate programs in Quantum Computing will permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the program.

Students may choose the CG grade for a course taken extra to load.  
The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be granted for undergraduate courses.

## Time Limits

The expected completion time for the Master of Quantum Computing (direct-entry pathway) is 12 months, and four months for students entering via the laddered pathway. The maximum completion time for the direct-entry Master's is six years.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is 6 years from the start of the first credential in the laddering process.

## Supervisory Assignments

An academic coordinator is assigned to each cohort in the Master's program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students enrolled in any of the Quantum Computing Graduate Credentials are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards.

For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

#### Specializations:

- Eastern Religions
- Nature of Religion
- Western Religions

Feasibility of areas within these specializations depends on available research resources and faculty expertise.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/religious-studies-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/religious-studies-master-arts-thesis-based).

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) An admission grade point average of 3.30 or higher on a four-point scale and a minimum of 36 units in Religious Studies (or

their equivalents), usually including at least 6 units from each of the three streams (Eastern, Western, Nature), as determined by the graduate committee.

b) A reading knowledge of a modern language other than English or of a classical language appropriate to the thesis research. The language requirement normally should be met before admission to the master's program. If this is not the case, the language requirement should be met during the students' course of study in the master's program.

c) Two reference letters.

d) Applicants must include in their application package a sample of written work (e.g. a recent research essay).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, the Department normally requires:

a) Five courses (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission).

##### Complete ALL of the following Courses:

- RELS601 - Studies in Western Religions  
**AND** RELS603 - Studies in Eastern Religions  
**AND** RELS605 - Studies in the Nature of Religion  
**AND** RELS607 - Supervised Master's Thesis Inquiry  
**AND** RELS609 - Selected Topics on Critical Discourses in the Study of Religion

b) A thesis proposal to be presented to the Graduate Studies Committee for evaluation and approval before the second annual registration.

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Advanced Credit

Any requests for advanced credit must be made when applying for admission. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Graduate course work completed before admission and not counted toward satisfying undergraduate degree requirements will be assessed by the Departmental Graduate Committee to determine course requirements.

### Flexible Grade Option (CG Grade)

The Religious Studies program in the department Of Classics and Religion will not permit the Flexible Grade Option (CG Grade) for any course offered by the Religious Studies program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit for undergraduate courses will be given only upon approval of the Departmental Graduate Committee.

## Time Limit

Expected completion time for full-time students is two years in the master's program. Maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Departmental Graduate Committee assigns an advisor (interim supervisor) when an applicant is recommended for admission to the Faculty of Graduate Studies. A regular supervisor must be assigned by the beginning of the second registration year.

## Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or inquire of the Department.

Students applying for scholarships must submit their applications to the Department by February 1.

## Overview

### General Program Information

#### Specializations:

- Eastern Religions
- Nature of Religion
- Western Religions

Feasibility of areas within these specializations depends on available research resources and faculty expertise.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [clare.ucalgary.ca](http://clare.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/religious-studies-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/religious-studies-doctor-philosophy-thesis-based)

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A degree comparable to the University of Calgary Religious Studies Master of Arts with a minimum grade point average of 3.50 on a four-point scale.
- b) Two reference letters.
- c) Applicants must include in their application package a sample of written work (e.g. a recent research essay).

Students with an Honours Bachelor of Arts degree in Religious Studies, a grade point average of 3.70 or higher, and evidence of competence in the required languages may be admitted directly into the doctoral program or may be considered for transfer to the doctoral program after the first year of the master's program. Such applicants must include in their application package a detailed statement (10 pages) of the purpose, field, and course of study to be pursued in the program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department normally requires:

- a) For students with a Master of Arts in Religious Studies, five courses are required (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission):

##### Complete ALL of the following Courses:

- RELS701 - Studies in Western Religions  
**AND** RELS703 - Studies in Eastern Religions  
**AND** RELS705 - Studies in the Nature of Religion  
**AND** RELS707 - PhD Departmental Colloquium  
**AND** RELS709 - Advanced Topics on Critical Discourses in the Study of Religion

- b) For students with a BA Honours or for students transferring from the master's program, eight courses are required (in addition to individualized requirements that may be set by the Departmental Graduate Committee at the time of admission):

##### Complete ALL of the following Courses:

- RELS601 - Studies in Western Religions  
**AND** RELS603 - Studies in Eastern Religions  
**AND** RELS605 - Studies in the Nature of Religion  
**AND** RELS701 - Studies in Western Religions  
**AND** RELS703 - Studies in Eastern Religions  
**AND** RELS705 - Studies in the Nature of Religion  
**AND** RELS707 - PhD Departmental Colloquium  
**AND** RELS709 - Advanced Topics on Critical Discourses in the Study of Religion

#### Additional Comments:

## PhD Language Requirements

Before the written candidacy examination, doctoral students must demonstrate a reading knowledge of at least two languages other than English. At the discretion of the Department and upon recommendation of the Graduate Director, competency in additional languages may be required. The foreign language requirement may be satisfied in two ways:

- a) Successful completion (final grade of "B" or higher) at some stage of the student's university program of at least 12 units in a first language other than English, and 6 units in a second language; or
- b) Successful completion (grade of "B" or higher) of a language examination administered by the Department of Classics and Religion or by another department on behalf of the Department of Classics and Religion. When the test is administered by another department, it will consist of a passage or passages selected by the supervisor and/or any requirements that the other department may deem necessary; the test will be graded by the examiner(s) of the other department. When members of the Department of Classics and Religion administer the test, the examination questions will be determined, administered, and graded by two members of the Department (one of whom normally will be the supervisor) who have expertise in the language under consideration. In the event that a second person with expertise in the required language is not available, the Department Head may seek an expert from outside the department.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Any requests for advanced credit must be made when applying for admission. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Graduate course work completed before admission and not counted toward satisfying undergraduate degree requirements will be assessed by the Departmental Graduate Committee to determine course requirements.

## Flexible Grade Option (CG Grade)

The Religious Studies program in the department Of Classics and Religion will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Religious Studies program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit for undergraduate courses will be given only upon approval of the Departmental Graduate Committee.

## Time Limit

Expected completion time for full-time students is four years in the PhD program. Maximum completion time is six years in the doctoral program.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The Departmental Graduate Committee assigns an advisor (interim supervisor) when an applicant is recommended for admission to the Faculty of Graduate Studies. A regular supervisor must be assigned by the beginning of the second registration

year.

## Required Examinations

### Candidacy

Doctoral students must complete language requirements, a written thesis proposal, and Field of Study examinations: two written and one oral. For complete details of the candidacy requirements, see [clare.ucalgary.ca/graduate/phd-candidacy-policies](http://clare.ucalgary.ca/graduate/phd-candidacy-policies).

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or inquire of the Department.

Students applying for scholarships must submit their applications to the Department by February 1.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Reservoir Characterization to students registered in an existing course-based master's program in the Departments of Chemical and Petroleum Engineering or Geoscience. The program integrates reservoir engineering, geology, geophysics, and reservoir characterization. The student will receive the degree offered by the home program:

- Master of Engineering in Chemical and Petroleum Engineering (MEng)
- Master of Science in Geoscience (MSc)

All students will normally be considered to have full-time status. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Director.

Geoscientists should contact the Department of Geoscience and engineers should contact the Department of Chemical and Petroleum Engineering for further information.

### Department of Chemical and Petroleum Engineering

Location: Schulich School of Engineering, Room B202

Program number: 403.220.4802

Fax: 403.284.4852

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Email Address: <mailto:chemandpetenggrad@ucalgary.ca>

Web page URL: <http://schulich.ucalgary.ca/departments/chemical-and-petroleum-engineering>

## Department of Geoscience

Location: Earth Sciences 118

Program number: 403.220.3254

Fax: 403.284.0074

Email Address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website:

Master of Engineering in Chemical and Petroleum Engineering (MEng): <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-meng-course>.

Master of Science in Geoscience (MSc): <https://grad.ucalgary.ca/future-students/explore-programs/geoscience-msc-course>.

In addition to Faculty of Graduate Studies **admission** requirements, all applicants must meet the minimum standards of the home program.

Acceptance into the Master of Engineering program would normally require the completion of the equivalent of the Bachelor of Science in Oil and Gas Engineering degree offered by the University of Calgary. However, individuals with more diverse background and industry experience may be considered for admission.

Acceptance into the Master of Science program requires the completion of a Bachelor of Science in Geoscience plus a course in Well Logging and Formation Evaluation such as Petroleum Engineering 507 at the University of Calgary, or equivalent.

Applicants with an undergraduate degree in geology must demonstrate acceptable proficiency in mathematics. It is an asset for geologists to have taken additional mathematics courses as technical electives during their undergraduate degree.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

To address the broad background of students entering the Reservoir Characterization Interdisciplinary Specialization, there are three streams for completion: Engineering, Geology or Geophysics.

In addition to Faculty of Graduate Studies (**see regulations**) and the home program requirements, the Specialization requires: All students must take at least six courses at the 600 and/or 700 level.

**Students in Engineering are required to take:**

**Complete ALL of the following Courses:**

- GOPH559 - Imaging, Inversion, and Interpretation of Geophysical Data  
**AND** ENCH621 - Reservoir Simulation  
**AND** ENCH661 - Geostatistics for Reservoir Characterization  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which MUST be Geology or Geophysics:

**Complete ANY of the following Courses:**

- ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH619 - Special Problems  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering  
**OR** GLGY647 - Geology Well Log Applications  
**OR** GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy  
**OR** GLGY699 - Selected Topics in Geology  
**OR** GOPH667 - Introduction to Passive Seismic Monitoring  
**OR** GOPH671 - Inverse Theory & Applications I

\*ENCH 619.63

\*GLGY 699.76

**Students in Geology are required to take:**

**Complete ALL of the following Courses:**

- ENPE523 - Introduction to Reservoir Engineering  
**AND** ENCH621 - Reservoir Simulation  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development
- ENCH661 - Geostatistics for Reservoir Characterization  
**OR** GLGY697 - Advanced Geostatistics

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which MUST be Engineering:

**Complete ANY of the following Courses:**

- ENPE525 - Waterflooding and Enhanced Oil Recovery  
**OR** ENPE533 - Petroleum Production Engineering  
**OR** ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH619 - Special Problems  
**OR** ENCH629 - Secondary & Tertiary Recovery  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering  
**OR** ENCH687 - Petroleum Economics

**OR** GOPH667 - Introduction to Passive Seismic Monitoring  
**OR** GLGY647 - Geology Well Log Applications  
**OR** GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy  
**OR** GLGY699 - Selected Topics in Geology  
**OR** GOPH559 - Imaging, Inversion, and Interpretation of Geophysical Data

\*ENCH 619.63

\*GLGY 699.76

**Students in Geophysics are required to take:**

**Complete ALL of the following Courses:**

- ENPE523 - Introduction to Reservoir Engineering  
**AND** ENCH621 - Reservoir Simulation  
**AND** ENCH661 - Geostatistics for Reservoir Characterization  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which **MUST** be Engineering:

**Complete ANY of the following Courses:**

- ENPE525 - Waterflooding and Enhanced Oil Recovery  
**OR** ENPE533 - Petroleum Production Engineering  
**OR** ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH611 - Advanced Well Test Analysis (Inactive)  
**OR** ENCH629 - Secondary & Tertiary Recovery  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering  
**OR** ENCH687 - Petroleum Economics  
**OR** GOPH667 - Introduction to Passive Seismic Monitoring  
**OR** GLGY647 - Geology Well Log Applications  
**OR** GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy  
**OR** GLGY699 - Selected Topics in Geology

\*ENCH 619.63

\*GLGY 699.76

**Additional Comments:**

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Time Limit

Expected completion time is two years and maximum completion time is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Supervisors will be approved by the specialization Graduate Program Director.

### Required Examinations

After the conclusion of the Capstone Project, there will be a comprehensive oral examination of each student before an examining committee that includes a faculty member from each of the three disciplines. Each student will be expected to express in-depth knowledge in their area of expertise (Engineering, Geology, Geophysics), and to have a comprehensive knowledge of the significance of the other two areas in successful reservoir characterization.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

For information on awards, see the **Awards and Financial Assistance** section of this calendar.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Stem Cell and Regenerative Medicine at the Master's and Doctoral levels for students registered in the following faculties and graduate programs:

- Biomedical Engineering
- Veterinary Medical Sciences

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

### Biomedical Engineering BMEN

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://research.ucalgary.ca/bme/graduate>

### Veterinary Medical Sciences VMS

Email address: <mailto:vmgrad@ucalgary.ca>

Web page URL: <http://vet.ucalgary.ca/graduate>

## Admissions

## Program Admissions Information

Students must first apply to a graduate program offering the specialization. See:

- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Veter](#)
- [PHD Veteri](#)

Applicants must meet the [admission requirements](#) of the Faculty of Graduate Studies and the home program that offers the Stem Cell and Regenerative Medicine specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Stem Cell and Regenerative Medicine specialization must meet the following course requirements:

- a) [VETM702 Adv Topics Stem Cell Biol](#)
- b) [MDSC710 Business & Careers Biotech](#)

- All SCRM students must attend and participate in the Reproduction and Regenerative Medicine Research Group monthly seminar series. Attendance is a mandatory program requirement and will be recorded. This is an ongoing, mandatory educational activity for the duration of the graduate program and is routinely attended by graduate supervisors.
- All SCRM students must attend and participate in the weekly Reproduction and Regenerative Medicine Research group journal club. Attendance is a mandatory program requirement and will be recorded. This is an ongoing, mandatory educational activity for the duration of the graduate program, which will be attended by graduate supervisors on a rotary basis.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

See home program for information on time limits, supervisory assignments, required examinations, research proposal requirements and financial assistance.

## Overview

### General Program Information

The MSc degree in Sustainable Energy Development (SEDV) is an interdisciplinary offering by the School of Public Policy in collaboration with the Haskayne School of Business, Schulich School of Engineering, School of Architecture, Planning, and Landscape, and the Faculty of Law. This interdisciplinary, comprehensive, and professional graduate program provides a holistic

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approach to energy and environmental management through a cross section of courses taught by faculty from across the university.

This is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: Downtown Campus

Program number: 403.220.2013

Email address: <mailto:sedv@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/sustainableenergy>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/sustainable-energy-development-master-science-course-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the SEDV Program requires:

- Letter of intent of no more than 1000 words, addressing four questions provided on the SEDV admissions [website](#). Each question must be answered in no more than 250 words.
- A current curriculum vitae.
- Two years of professional work experience after graduation.
- Two reference letters: one academic and one professional.

Please refer to our [website](#) for detailed instructions and templates.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), SEDV requires successful completion of 42 units consisting of the following:

33 units of core courses:

#### Complete ALL of the following Courses:

- SEDV601 - Energy Systems I  
**AND** SEDV603 - Energy Systems II  
**AND** SEDV605 - Indigenous Peoples and Sustainability in Energy Development  
**AND** SEDV613 - Energy Economics and Finance  
**AND** SEDV615 - Environmental Impact Assessment in the Energy Sector  
**AND** SEDV619 - Environmental Law in the Energy Sector  
**AND** SEDV621 - Environmental Management Tools in the Energy Sector  
**AND** SEDV623 - Strategic Environmental Planning for Energy Organizations  
**AND** SEDV631 - Life Cycle Sustainability Assessment in the Energy Sector  
**AND** SEDV633 - Energy and Climate Policy  
**AND** SEDV635 - Fundamentals of Water, Air, and Land Pollution

6 units chosen from:

**Complete ANY of the following Courses:**

- SEDV698 - Topics in Energy and the Environment I  
**AND** SEDV699 - Topics in Energy and the Environment II

3 unit capstone project:

**Complete ALL of the following Courses:**

- SEDV640 - Capstone Project I: Research Design  
**AND** SEDV641 - Capstone Project II: Proposal Development  
**AND** SEDV642 - Capstone Project III: Research Exploration and Examination

The work completed in this set of courses is considered equivalent to a Major Research Project. These courses must be taken immediately after each other. The project work must be interdisciplinary, reflecting a minimum of 3 areas of study, with energy and environment as the two anchors.

#### Additional Comments:

Students will have the opportunity to participate in professional development seminars, experiential learning workshops, and field trips to local energy related sites. Attendance and participation in such activities is expected.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The SEDV Program does not grant advanced credit for courses completed prior to admission.

#### Flexible Grade Option (CG Grade)

The Master of Science in Sustainable Energy Development program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

#### Credit for Undergraduate Courses

The SEDV program does not grant advanced credit for undergraduate courses.

#### Time Limit

The SEDV program commences annually in May, which is the only intake. As a cohort-based program, the expectation is for students to complete courses as timetabled for their cohort.

The expected completion time is 16 months for full-time studies; however, the maximum permitted time is 6 years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

For information on graduate funding, please see [Financing - SEDV | Haskayne School of Business | University of Calgary](#).

## Overview

### General Program Information

The work completed in the course-based Master of Arts program is considered equivalent to a major research project and is appropriate for students who intend to proceed to doctoral studies.

The MA, course-based is a continuous program with no scheduled break.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-ma-course>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) Thesis-based program: a grade point average of 3.5 on a four-point scale over the last two years of coursework or 60 units.  
Course-based program: a grade point average of 3.3 on a four-point scale over the last two years of coursework or 60 units.
- b) Demonstrated competence, normally through course work, in classical and contemporary sociological theory, social research methods, and social statistics.
- c) A written statement of intent.
- d) A sample of written work. Possible writing samples include a term paper, a research report, a thesis chapter or an article. Writing samples cannot be co-authored and those with sociological content are preferred.
- e) Two reference letters.
- f) Students must hold a four-year degree from a recognized/accredited institution. If degree was received from a university outside of Canada, refer to the country-specific degree requirements: [grad.ucalgary.ca/prospective/admissions/international-admission-requirements](http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

27 units of courses including:

- a) Competence in sociological statistics, methods of sociological research, and sociological theory demonstrated by completing [SOCI611 Soc Stats:General Linear Model](#), [SOCI613 Sem Quantitative Res Methods](#), [SOCI615 Seminar In Qualitative Res Method](#) or an alternative methods course offered by the Sociology Department; and [SOCI631 Seminar in Sociological Theory](#).
- b) 9 units of electives at the 600 or 700 level; at least 6 units must consist of courses labelled SOCI.
- c) 3 units from [SOCI606 Master's Seminar Prof SOCI I](#) and [SOCI607 Master's Seminar Prof SOCI II](#) (1.5 units each).
- d) 6 units of [SOCI680 Major Research Project](#), a course (major research paper) taken in spring and summer terms.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to two 600-level Sociology courses (6 units).

#### Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the Flexible Grade Option (CG Grade) for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

#### Time Limit

Expected completion time is 12 months for the course-based Master of Arts. Maximum completion time is four years.

#### Research Proposal Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. Information on departmental funding is available in the online Graduate Student Handbook. For further information on awards, please see the Awards and Financial Assistance section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## Overview

### General Program Information

The MA (thesis-based) is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-ma-thesis>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) Thesis-based program: a grade point average of 3.5 on a four-point scale over the last two years of coursework or 60 units.  
Course-based program: a grade point average of 3.3 on a four-point scale over the last two years of coursework or 60 units.
- b) Demonstrated competence, normally through course work, in classical and contemporary sociological theory, social research methods, and social statistics.
- c) A written statement of intent.
- d) A sample of written work. Possible writing samples include a term paper, a research report, a thesis chapter or an article. Writing samples cannot be co-authored and those with sociological content are preferred.
- e) Two reference letters.
- f) Students must hold a four-year degree from a recognized/accredited institution. If degree was received from a university outside of Canada, refer to the country-specific degree requirements: [grad.ucalgary.ca/prospective/admissions/international-admission-requirements](http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

18 units of courses including:

- a) Competence in sociological statistics, methods of sociological research, and sociological theory demonstrated by completing [SOCL611 Soc Stats:General Linear Model](#); [SOCL613 Sem Quantitative Res Methods](#), [SOCL615 Seminar In Qualitative Res Method](#) or an alternative methods course offered by the Sociology Department; and [SOCL631 Seminar in Sociological Theory](#).
- b) 6 units of electives on substantive topics at the 600 or 700 level; at least 3 units of elective must be a Sociology Department offering.
- c) 3 units from [SOCL606 Master's Seminar Prof SOCI I](#) and [SOCL607 Master's Seminar Prof SOCI II](#) (1.5 units each) and successful preparation and completion of a thesis prospectus.
- d) Completion of the MA Thesis requirement.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to three 600- or 700-level courses (9 units).

### Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the **Flexible Grade Option (CG Grade)** for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

### Time Limit

Expected completion time is 20 months for the thesis-based Master of Arts. Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

An interim supervisor is assigned to all incoming students in the thesis-based MA programs. Thesis-based MA students, after one term in the program, will make supervisory arrangements with a faculty member in the chosen area of research.

### Research Proposal

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

Thesis-based Master of Arts students are required to prepare a thesis proposal within nine months of the date of entry into the program.

### Thesis Examinations

Thesis examinations are open. In addition to Faculty of Graduate Studies regulations for **thesis examinations**, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

#### Financial Assistance

##### Type

## Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. Information on departmental funding is available in the online [Graduate Student Handbook](#). For further information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## Overview

### General Program Information

The PhD programs in Sociology is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-phd>

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- a) A grade point average of 3.5 on a four-point scale over a master's program.
- b) Demonstrated competence in sociological theory, social methodology, and social statistics, in addition to a substantive interest.
- c) A written statement of intent.
- d) A sample of written work.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Course requirements:

- [SOCI611 Soc Stats:General Linear Model](#) (students who have completed this or an equivalent graduate-level statistics course may substitute any other 600- or 700-level course);
- [SOCI706 Doctoral Seminar Prof SOCI I](#), [SOCI707 Doctoral Seminar Prof SOCI II](#) and [SOCI731 Doctoral Seminar Soci Theory](#);
- 6 units of methodology courses at the 700 level;

- 6 units of electives on substantive topics at the 600 or 700 level; at least 3 units of elective must be selected from Sociology Department offerings.

b) Completion of the PhD Thesis requirement.

## Copyediting Policy

Students may hire an editor to copyedit their theses. The student, supervisor and editor must abide by the following regulations:

1. Prior to hiring a copy editor, permission from the supervisor(s) must be obtained. An agreement outlining the permitted scope of editing must be signed by the student and the supervisor(s).
2. A disclosure statement is required in the thesis (e.g., a sentence in the preface or acknowledgment stating that the thesis has been professionally edited).
3. Under no circumstances should the copyediting alter the content, structure or contribution of the thesis.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to three 600- or 700-level courses (9 units).

## Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the **Flexible Grade Option (CG Grade)** for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An interim supervisor is assigned to all incoming students in the PhD program. PhD students, after two terms in the program, will make supervisory arrangements with a faculty member in the chosen area of research. In the case of PhD students, the supervisor and student will select two other faculty members to serve on the student's supervisory committee.

## Research Proposal

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

## Required Examinations

### Candidacy

Doctoral students must complete a thesis prospectus, normally within fourteen months of initial registration in the doctoral program. Successful completion of the prospectus means that the Supervisory Committee has approved the thesis project, and a written copy of the prospectus is filed with the Sociology Department Student Administrator.

Doctoral students must pass a Field of Study examination with a written and an oral component, normally completed within twenty months of initial registration in the doctoral program.

For complete details of the candidacy requirements, see [soci.ucalgary.ca/graduate/phd-program](http://soci.ucalgary.ca/graduate/phd-program).

### Thesis Examinations

Thesis examinations are open. In addition to Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. Information on departmental funding is available in the online [Graduate Student Handbook](#). For further information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](http://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-](http://ucalgary.ca/future-)

[students/graduate/explore-programs/music-master-music-thesis-based.](#)

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- a) A completed Bachelor of Music degree (or equivalent).
- b) A live audition or video/audio recording. Repertoire for the audition must contain representative works from a variety of historical periods and must demonstrate an advanced level of technical accomplishment. Recordings should be approximately 20-30 minutes in length. Live auditions are scheduled for early February. Specific dates and times can be arranged by contacting the Graduate Program Administrator at 403.220.5422 or email <mailto:artsgradsc@ucalgary.ca>.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#), [MUSI651 Sel Top Electroacoustic Music](#) and [MUSI653 Projects in Computer Music](#)
- 3-unit graduate Music course, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be either a substantial sonic arts creative project with an accompanying research document or a portfolio of sonic arts creative work, realized in the second year of study, and an accompanying descriptive essay related to the portfolio. The project or portfolio of works will be performed or presented in public prior to the thesis defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is five years for the Master of Music programs.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project. In (Sonic Arts) the exam questions will be based on a compiled bibliography (readings and works) relevant to the student's area of research.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://grad.ucalgary.ca/schools/creative-performing-arts/music/graduate>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) A portfolio of sonic arts creative and/or research projects, and an extended research paper.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- [MUSI751 Adv Top Electroacoustic Music](#) and [MUSI753 Adv Projects in Computer Music](#)
- 12 units of additional approved graduate courses.

#### Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

The thesis is interpreted to be a cohesive sonic arts creative project with an accompanying research document approved by the supervisory committee. The project will be performed or presented in public prior to the thesis defence.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is six years for the doctoral program.

#### Supervisory Assignments and Required Examinations

Type

Completion Requirement

**Additional Comments:**

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### Required Examinations

#### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

#### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

*Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

#### Financial Assistance

Type

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial](#)

[Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

The PhD in Social Work is a research-based degree and is intended to graduate highly qualified social work researchers, administrative leaders, policy makers, and educators. The aim of developing such advanced scholarly and research skills is to equip doctoral students for future roles as leaders of the social work profession.

Please check the faculty's [website](#) to determine the program location for the year that you apply.

Program Number: 1.877.220.6945

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students page: <http://ucalgary.ca/future-students/graduate/explore-programs/social-work-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies requirements for [Admission](#), the Faculty of Social Work requires the following:

- a) A Master of Social Work or equivalent graduate degree from a recognized institution with a minimum grade point average of 3.50 on a four-point scale.
- b) A program proposal outlining the applicant's social work perspectives, educational and research goals, which include the applicant's reasons for pursuing doctoral education in social work; educational goals and career expectations; prior research course work and research experience; and a research proposal outlining the research issue/problem the applicant hopes to investigate, the preliminary ideas regarding methodology, and the potential contributions to social work research, practice, policy, and education.
- c) A minimum of two years full-time post-master's social services practice experience.
- d) A sample of written work, such as a published or unpublished scholarly paper or a professional report.
- e) Two references, one of which should come from a person who can speak to the applicant's academic performance and ability, and one professional/work reference.
- f) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

Note: Completing a PhD degree does not qualify an individual to register with the Alberta College of Social Workers (ACSW). Please visit [ACSW website](#) for additional information.

Access to an electronic device, such as a tablet or computer, is necessary.

Requests to defer an offer of admission are not normally considered.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

A minimum of 27 units of course work. Required core courses include:

**Complete ALL of the following Courses:**

- SOWK741 - Research Foundations: Epistemology and Professional Knowledge-Building  
**AND** SOWK743 - Theory, History and Philosophy: Values, Ethics and Professional Beliefs  
**AND** SOWK745 - Research Methods I: Quantitative  
**AND** SOWK747 - Research Methods II: Qualitative  
**AND** SOWK721 - Integrative Research Colloquia

**Note:** Social Work 721 can only be taken once all other required (core and elective) courses have been completed.

Twelve units of elective graduate courses relevant to the student's substantive area of research. Electives may be taken outside of the Faculty of Social Work, depending on the student's needs and course availability. All courses taken external to the Faculty of Social Work must have prior approval from the student's supervisor, the PhD co-ordinator and the Graduate Program Director in the Faculty of Social Work.

Please note that not all courses are offered every semester. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of courses: <https://socialwork.ucalgary.ca/>.

#### Additional Comments:

Participation in student orientation sessions held prior to the start of the program is expected of students.

#### Other Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Request for [Advanced Credit](#) must be made as part of the application process. Credit will not be given for coursework taken as part of another completed degree/diploma or for courses taken to raise the grade point average for admission consideration. Advanced credit may be granted for not more than the equivalent of 9 units.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Doctor of Philosophy (PhD) program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) in doctoral courses offered by the faculty, with no exceptions.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

### Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

## Time Limit

As established by the Faculty of Graduate Studies (see [Time Limits](#)), maximum completion time is six years for a doctoral program. The expected completion time is four years for a PhD.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

For incoming PhD students, the PhD/MSW Thesis Coordinator will act as the interim supervisor in cases where one has not been identified. Before the end of April of the first year, each student must designate a faculty member as permanent supervisor. The supervisor and student must select a supervisory committee no later than three months after the appointment of the permanent supervisor or fifteen months after the initial registration. Doctoral supervisory committees typically consist of the supervisor and two other members, one of whom may be external to the Faculty of Social Work.

Within the first two months of working together, PhD students and their interim and/or permanent supervisors are required to complete and submit to Student Services in the Faculty of Social Work the signed Checklist of Expectations for Graduate Students and Supervisors and the Intellectual Property Awareness checklist. These become part of the student's permanent record. If a change occurs in supervision, a new Student-Supervisor checklist must be completed, signed and submitted to Student Services within two months of the change.

## Required Examinations

### Candidacy

Doctoral students must successfully complete all the required courses, their thesis research proposal and portfolio prior to the Written Field of Study Examination and Oral Field of Study Examination, which must be completed within 28 months of commencement of the program. For complete details of candidacy requirements, see the [Faculty of Social Work's Doctoral Candidacy Requirements](#).

### Thesis Examination

For the Faculty of Graduate Studies regulations, see [Thesis Examinations](#). In addition, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the Faculty of Social Work.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section, search the [Graduate Awards Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

General Program Information

# UCalgary

## General Program Information

### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Software Security, **GCERT Data** or **GCERT Netw** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Master of Information Security and Privacy program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/software-security-cert>.

In addition to Faculty of Graduate Studies **admission requirements**, admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
- Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see **G.A.1 Qualifications**), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Course Requirements

#### Type

## Completion Requirement

Complete ALL of the following Requirement Sets:

- Software Security GC courses

Additional Comments:

## Additional Program Information

Type

Completion Requirement

Additional Comments:

## Advanced Credit

Advanced credit will not normally be given for the Software Security Graduate Certificate.

## Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For the Software Security Graduate Certificate, credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

## Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort.

The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

## Financial Assistance

Type

Completion Requirement

Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the Awards and Financial Assistance section.

## Overview

### General Program Information

The Graduate Certificate in Transdisciplinary Studies I is a 13.5-unit graduate credential comprised of four 3-unit courses in a specialization, combined with a 1.5-unit course on transdisciplinary scholarship. The Certificate is designed for students to complete it within one year with a maximum of up to two years. This Graduate Certificate enables graduate students with a range

of backgrounds to develop meaningful skills and knowledge that can be extended into multiple domains to solve problems, avoid silos, and collaborate with community to address real world issues.

## **Specializations:**

- Social Research Methods
- Ethics and Sustainability\*
- Social Innovation\*
- Foundations of One Health\*

\*These specializations will not be offered in the 2024/2025 academic year.

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## **Contact Information**

Faculty of Graduate Studies

Faculty number: 403.220.4938

Fax: 403.289.7635

Website: [grad.ucalgary.ca](http://grad.ucalgary.ca)

## **Admissions**

### **Program Admissions Information**

Application deadline is available on the Future Students [website](#).

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In addition to Faculty of Graduate Studies requirements for [Admission](#) the program requires:

- A Bachelor's degree or equivalent from a recognized institution.
- A grade point average of 3.0 on a four-point scale on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); or an IELTS score of 7.5 (with no section less than 7.0); a CAEL overall score of 70 (with a minimum score of 70 in each component); a PTE score of 75; a Duolingo score of 145 (no subscore below 125) or a Cambridge C1/C2 Proficiency test score of 200. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in each course.
- Two referees: Applicants will submit names and professional email addresses for referees in their online applications. Referees will receive an email invitation to provide references online.

In addition, the following requirements apply to the specialization:

### **Social Research Methods**

- Competence in social research methods and social statistics, normally demonstrated by completion of at least one 3-unit undergraduate course in each of social statistics and social research methods.
- A resume that demonstrates at least two years of work experience pertinent to careers that would involve social research.
- A 200-word written statement explaining why the applicant would like to complete the certificate.

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*Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to some graduate programs. The candidate must provide the relevant graduate program with evidence demonstrating a potential to undertake successfully the proposed program of studies. Such candidates are advised to make early contact with the graduate program. In all such cases, the decision whether to admit rests with the Dean of the Faculty of Graduate Studies.*

## **Program Details**

### **Simple Requisites**

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#), the Graduate Certificate in Transdisciplinary Studies I requires 13.5 units of coursework:

- [TDST600 Transdisciplinary Scholarship](#); and
- normally 12 units from one of the specializations:

##### Social Research Methods

- [SOCI611 Soc Stats:General Linear Model](#)
- [SOCI613 Sem Quantitative Res Methods](#)
- [SOCI615 SeminarInQualitativeResMethod](#)
- [SOCI617 Sem in Applied Socl Rsrch Mthd](#)

*Note: with the approval of the Graduate Program Director, in exceptional circumstances, students in the Certificate program may take TDST 605.02 in lieu of one of the four required courses in the specialization.*

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

Advanced credit towards the Graduate Certificate in Transdisciplinary Studies I will not normally be accepted.

#### Time Limits

The expected completion time for the Graduate Certificate in Transdisciplinary Studies I is four, eight, or 12 months depending on the schedule set for the sub-specializations.

The maximum completion time for the Graduate Certificate in Transdisciplinary Studies I is two years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The Graduate Certificate in Transdisciplinary Studies II will be offered in the 2025/2026 academic year. Please refer to the website for information and updates.

## Admissions

## Program Details

## Overview

### General Program Information

#### Specializations\*

- Wildlife Health and Ecology
- Stem Cell&

\*Students may apply to one of the specializations provided that their main research plan falls within the scope of the specialization. Application should occur once admitted to the VMS graduate program.

In addition, the University of Calgary offers the joint Leaders in Veterinary Medicine Program leading to the combined DVM/MSc or DVM/PhD degrees. Students applying to the DVM/MSc or DVM/PhD program must apply individually to each program and complete a supplementary application for the Leaders in Veterinary Medicine Program. Further information regarding the Leaders in Veterinary Medicine Program is provided under the Combined Degrees section in this Calendar.

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Master's thesis students are normally admitted as full-time students. The Faculty of Graduate Studies may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

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Location: Teaching Research and Wellness (TRW) Building, Room 2D09

Program number: 403.210.8764

Fax: 403.210.6628

Email address: <mailto:vmgrad@ucalgary.ca>

Web page URL: <http://vet.ucalgary.ca/graduate>

## Admissions

### Program Admissions Information

For the MSc application deadlines, see <http://www.ucalgary.ca/future-students/graduate/explore-programs/veterinary-medicine-master-science-thesis-based>.

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In addition to the Faculty of Graduate Studies admission requirements, the Veterinary Medical Sciences program requires:

- a) A minimum of a baccalaureate degree (or its equivalent, or a BVSc, DVM or MD degree) with course work appropriate for VMS graduate training from a recognized institution, with a minimum admission grade point average of 3.00 on a four-point scale or equivalent in the last two years (60 units) of undergraduate study.
- b) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS score of 7.0,

or a CAEL overall score of 70. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

c) The VMS Funding Offer letter from a supervisor outlining the commitment to the training of the student, as well as the commitment to fund full-time students (in accordance with the [VMS Funding Policy](#)).

d) Two reference letters.

e) Curriculum Vitae.

f) Endorsement of the Graduate Program Director, which is granted based on the evaluation of the admissions file by the UCVM Graduate Education Committee.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), PhD students must complete:

a) [VETM601 Prof Skills Hlth Science Res](#);

b) [MDCH605 \(VETM605\)Intro Biostat Methods](#) or [MDCH610 Biostat I: Esstnl's Biostat\\*](#);

\*A suitable entry-level biostatistics course may be taken as an alternative to Veterinary Medicine 605 or 610, with permission from the Graduate Program Director.

c) MSc students must take at least 3 additional units that are appropriate to their field of study and have been approved by their Supervisory Committee; and

d) MSc students are required to give one public seminar to the Faculty of Veterinary Medicine community prior to scheduling the thesis examination.

All individuals working with humans or animals must have appropriate certification. In accordance with Canadian Council on Animal Care guidelines and the University of Calgary VPR office, all individuals who work with animals must register with the [Institutional Animal User Training Program](#) to complete the relevant U of C IAUTP online training modules and to determine what additional training is required as determined by their research program and any previous animal use training they may have. No animal work will be permitted until all training has been completed. The IAUTP online training modules can be accessed prior to arrival to the U of C once the student's UCID is assigned, however, the associated written quiz and live training sessions must be completed after arrival.

In accordance with Tri-Council guidelines, all students performing research involving humans must have the [CORE tutorial certificate](#) prior to applying for ethics certification and must receive ethics certification prior to working with human subjects.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

[Advanced Credit](#) may be given for course work completed prior to entry into the program. The applicant must make requests for advanced credit as part of the application for admission.

### Flexible Grade Option (CG Grade)

The Veterinary Medical Sciences Graduate Program will not permit the [Flexible Grade Option \(CG Grade\)](#) for any graduate

course offered by the Faculty of Veterinary Medicine. Students admitted to the Veterinary Medical Sciences Graduate program will not be allowed to request the CG Grade for any course that is applicable to their degree; or apply any course awarded a CG grade towards their graduation requirements.

Students may not choose the CG grade for courses taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

The student's Supervisory Committee may recommend credit for undergraduate courses provided they are relevant to the area of study. Final approval is required by the Graduate Program Director.

### Time Limit

In accordance with FGS Academic Regulations, students are expected to complete an MSc in two years, with a maximum time of four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Students will normally have identified a permanent supervisor at the time of admission.

In consultation with the student's supervisor(s), a Supervisory Committee will be selected that includes a minimum of two additional faculty members for MSc degrees. The appointment of a supervisory committee shall be completed within three months after starting the program. The Graduate Program Director will approve the composition of the committee.

Co-supervision may be required. See [G.J. Supervision](#) for appointment of Co-Supervisor.

### Research Proposal Requirements

The VMS Graduate Program requires all Master's students to present a research proposal to their supervisory committee. A copy of the final version of the proposal will be kept in the student's file.

The research proposal must be accepted by one year after initial registration in the program. For research proposal requirements, see <https://vet.ucalgary.ca/current-students/graduate-students/policies-forms>.

### Thesis Examination

The thesis examination for MSc degrees will consist of a public seminar immediately followed by an open oral examination. In the thesis examination, the supervisor is a full voting member of the examination committee.

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner must be external to the home program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Full-time graduate students in the VMS Graduate Program will be offered a stipend as per the VMS graduate student funding policy. Funding support for the students may come from a variety of sources, including grants, awards and scholarships.

Further information on funding opportunities can be found at <https://vet.ucalgary.ca/future-students/graduate-students/funding>.

Part-time students are not guaranteed VMS program-set minimum funding.

## Overview

### General Program Information

#### Specializations\*

- Wildlife Health and Ecology
- Stem Cell&

\*Students may apply to one of the specializations provided that their main research plan falls within the scope of the specialization. Application should occur once admitted to the VMS graduate program.

In addition, the University of Calgary offers the joint **Leaders in Veterinary Medicine Program** leading to the combined DVM/MSc or DVM/PhD degrees. Students applying to the DVM/MSc or DVM/PhD program must apply individually to each program and complete a supplementary application for the Leaders in Veterinary Medicine Program. Further information regarding the Leaders in Veterinary Medicine Program is provided under the **Combined Degrees** section in this Calendar.

Doctoral graduate students are normally admitted as full-time students. The Faculty of Graduate Studies may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Location: Teaching Research and Wellness (TRW) Building, Room 2D09

Program number: 403.210.8764

Fax: 403.210.6628

Email address: <mailto:vmgrad@ucalgary.ca>

Web page URL: <http://vet.ucalgary.ca/graduate>

## Admissions

### Program Admissions Information

For the PhD application deadlines, see <http://www.ucalgary.ca/future-students/graduate/explore-programs/veterinary-medicine-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies **admission requirements**, the Veterinary Medical Sciences program requires:

- A minimum of a baccalaureate degree (or its equivalent, or a BVSc, DVM or MD degree) with course work appropriate for VMS graduate training from a recognized institution, with a minimum admission grade point average of 3.00 on a four-point scale or equivalent in the last two years (60 units) of undergraduate study.
- For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS score of 7.0, or a CAEL overall score of 70. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- The VMS Funding Offer letter from a supervisor outlining the commitment to the training of the student, as well as the commitment to fund full-time students (in accordance with the **VMS Funding Policy**).
- Two reference letters.

e) Curriculum Vitae.

f) Endorsement of the Graduate Program Director, which is granted based on the evaluation of the admissions file by the UCVI Graduate Education Committee.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), PhD students must complete:

a) **VETM601 Prof Skills Hlth Science Res;**

b) **MDCH605 (VETM605)Intro Biostat Methods** or **MDCH610 Biostat I: Esntl's Biostat\***;

\*A suitable entry-level biostatistics course may be taken as an alternative to Veterinary Medicine 605 or 610, with permission from the Graduate Program Director.

c) PhD students must take at least 6 additional units that are appropriate to their field of study and have been approved by their Supervisory Committee; and

d) PhD students are required to give one public seminar the Faculty of Veterinary Medicine community prior to completing the admission to candidacy process, and are required to give a second public seminar prior to scheduling the thesis examination.

All individuals working with humans or animals must have appropriate certification. In accordance with Canadian Council on Animal Care guidelines and the University of Calgary VPR office, all individuals who work with animals must register with the [Institutional Animal User Training Program](#) to complete the relevant U of C IAUTP online training modules and to determine what additional training is required as determined by their research program and any previous animal use training they may have. No animal work will be permitted until all training has been completed. The IAUTP online training modules can be accessed prior to arrival to the U of C once the student's UCID is assigned, however, the associated written quiz and live training sessions must be completed after arrival.

In accordance with Tri-Council guidelines, all students performing research involving humans must have the [CORE tutorial certificate](#) prior to applying for ethics certification and must receive ethics certification prior to working with human subjects.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

[Advanced Credit](#) may be given for course work completed prior to entry into the program. The applicant must make requests for advanced credit as part of the application for admission.

### Flexible Grade Option (CG Grade)

The Veterinary Medical Sciences Graduate Program will not permit the [Flexible Grade Option \(CG Grade\)](#) for any graduate course offered by the Faculty of Veterinary Medicine. Students admitted to the Veterinary Medical Sciences Graduate program will not be allowed to request the CG Grade for any course that is applicable to their degree; or apply any course awarded a CG grade towards their graduation requirements.

Students may not choose the CG grade for courses taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

The student's Supervisory Committee may recommend credit for undergraduate courses provided they are relevant to the area of study. Final approval is required by the Graduate Program Director.

## Time Limit

In accordance with FGS Academic Regulations, students in PhD programs are expected to complete their degree in four years, with a maximum time of six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students will normally have identified a permanent supervisor at the time of admission.

In consultation with the student's supervisor(s), a Supervisory Committee will be selected that includes a minimum of three additional faculty members for PhD degrees. In PhD committees, one member will be named from outside the VMS graduate program. The appointment of a supervisory committee shall be completed within three months after starting the program. The Graduate Program Director will approve the composition of the committee.

Co-supervision may be required. See [G.J. Supervision](#) for appointment of Co-Supervisor.

## Candidacy

Doctoral students must successfully complete all coursework, a written examination of a research proposal, and an oral field-of-study examination. Students with a first registration after August 2015 are governed by the candidacy policy described at: <https://vet.ucalgary.ca/current-students/graduate-students/policies-forms>.

## Thesis Examination

The thesis examination for PhD degrees will consist of a public seminar immediately followed by an open oral examination. In the thesis examination, the supervisor is a full voting member of the examination committee.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Full-time graduate students in the VMS Graduate Program will be offered a stipend as per the VMS graduate student funding policy. Funding support for the students may come from a variety of sources, including grants, awards and scholarships. Further information on funding opportunities can be found at <https://vet.ucalgary.ca/future-students/graduate-students/awards-funding/faculty-veterinary-medicine-awards>.

Part-time students are not guaranteed VMS program-set minimum funding.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Wearable Technology at the master's and doctoral levels for students registered in the following faculties and graduate programs:

- Faculty of Kinesiology
- Biomedical Engineering Graduate Program
- Geomatics Engineering Graduate Program
- Department of Electrical and Software Engineering
- Department of Computer Science
- Department of Psychology
- Computational Media Design Graduate Program

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

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Faculty of Kinesiology

Location: KNB 269

Program number: 403.220.7019

Email address: <mailto:kirsten.penrose@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates/our-programs/wearable>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Wearable Technology specialization are available on the Future Students website for the home graduate program.

- [MSCT Kines](#)
- [PHD Kinesi](#)
- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Geoma](#)
- [PHD Geomat](#)
- [Engineerin](#)
- [Engineerin](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Comp](#)
- [PhD Comp M](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

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Applicants must meet the [admission](#) requirements of the Faculty of Graduate Studies and the home program that offers the Wearable Technology specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

Program/Course Requirements
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## Type

Completion Requirement

## Additional Comments:

### MSc (thesis-based)

In addition to meeting the requirements of Faculty of Graduate Studies ([see regulations](#)) and the home program, MSc students in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).

2. [ENTI625 Intro to Entrepreneurship](#)

3. Completion of a practicum placement [KNES612.01 Practicum I](#)

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, supervisor, and supervisory committee.

### Doctor of Philosophy

In addition to meeting the requirements of Faculty of Graduate Studies and the home program, PhD trainees in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).

2. [ENTI625 Intro to Entrepreneurship](#)

3. Completion of a practicum placement [KNES612.01 Practicum I](#)\*

4. One (3 unit) elective in Biomechanics, OR Data Science, OR Data Visualization\*\* at the 600 or 700 level.

*\*With the support of the student's home program and Faculty of Graduate Studies, the student may complete Kinesiology 612 either before or after admission to candidacy.*

*\*\*Must be approved by the specialization Director, the student's Supervisor and Supervisory Committee.*

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, Supervisor, and Supervisory Committee.

Students are expected to attend the annual Wearable Technology Workshop held each Fall semester and participate in the Wearable Technology Lecture series.

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process.

### Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

### Supervisory Assignments

See requirements of home program.

### Required Examinations

See requirements of home program and the Faculty of Graduate Studies ([Academic Regulations](#)).

## Financial Assistance

See home program.

# Faculty of Kinesiology Department

Summary of Degree Programs

Faculty Information

Faculty Regulations

Program Details

Administration

Courses of Instruction by the Faculty of Kinesiology

## Programs

### Overview

General Program Information

### Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

The origins of Kinesiology at the University of Calgary date back to 1961 when the School of Physical Education was founded. In 1994, the name was changed to the Faculty of Kinesiology. Today, the faculty's curriculum and majors are recognized and accredited by the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA). The Faculty of Kinesiology offers a world-class environment for research and learning as well as superb training facilities for coaches and athletes at the varsity, community and Olympic level. The Faculty continues to work to improve the health and mobility of our society through our renowned research, which provides evidence of the benefits of exercise for all ages and demographics. Kinesiology students receive high-quality and relevant, experiential learning opportunities that inform their future careers and contribute to the research and scholarship in the faculty and the university. The Faculty is also the home of the successful Dinos varsity teams, Olympic Oval, Active Living, Outdoor Centre, Sport Medicine Centre and the Human Performance Lab.

## Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the [Combined Degrees](#) chart for a list of allowable combinations.

The Biomechanics Major (BSc) focuses on the mechanics of human movement with an emphasis on biomedical and sports applications, through course work in Kinesiology, Mathematics, and Engineering.

## Student Affairs

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the [Advising Office](#) a minimum of once per academic year to discuss any aspect of academic programs and student experience.

[Kinesiology Student Society \(KSS\)](#) is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements.

Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Additional Requirements for Bachelor of Science Programs

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 244, 251, 253, 259, 260, 263, 323, 337, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

*\*Students in the Motor and Psychosocial Aspects of Movement program are required to take Statistics 213.*

#### B. Biomechanics Major Requirements (36 units)

**Earn at least 36 credits from the following:**

- Engineering 202, 212, 311, 349
- Kinesiology 396, 463, 566
- Mathematics 211, 275, 277
- Mechanical Engineering 317

#### C. Kinesiology options at the 300 level or above (not used above) (12 units)

**Earn at least 12 credits from the following:**

- Kinesiology options at the 300 level or above

E. Open Options (18 units)

**Complete ALL of the following Requirement Sets:**

- Open Options

**Additional Comments:**

## Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Honours Degree
- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

The origins of Kinesiology at the University of Calgary date back to 1961 when the School of Physical Education was founded. In 1994, the name was changed to the Faculty of Kinesiology. Today, the faculty's curriculum and majors are recognized and accredited by the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA). The Faculty of Kinesiology offers a world-class environment for research and learning as well as superb training facilities for coaches and athletes at the varsity, community and Olympic level. The Faculty continues to work to improve the health and mobility of our society through our renowned research, which provides evidence of the benefits of exercise for all ages and demographics. Kinesiology students receive high-quality and relevant, experiential learning opportunities that inform their future careers and contribute to the research and scholarship in the faculty and the university. The Faculty is also the home of the successful Dinos varsity teams, Olympic Oval, Active Living, Outdoor Centre, Sport Medicine Centre and the Human Performance Lab.

## Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the **Combined Degrees** chart for a list of allowable combinations.

The Biomechanics Major (BSc) focuses on the mechanics of human movement with an emphasis on biomedical and sports applications, through course work in Kinesiology, Mathematics, and Engineering.

## Student Affairs

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the **Advising Office** a minimum of once per academic year to discuss any aspect of academic programs and student experience.

**Kinesiology Student Society (KSS)** is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements. Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

## Admission into Honours

Applicants to an Honours program must have completed a minimum of 90 units by the term in which they enter the Honours program. The completed units must include a junior level Statistics course, and a cumulative GPA of at least 3.30 over the completed 90 units (with a minimum GPA of 3.30 in all Kinesiology courses). These grade point averages must be maintained in order to retain Honours standing.

Students are strongly encouraged to consult with the Faculty's Advising Office prior to application.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Honours Graduation Requirements
- Faculty of Kinesiology - Additional Requirements for Bachelor of Science Programs

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 244, 251, 253, 259, 260, 263, 323, 337, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

*\*Students in the Motor and Psychosocial Aspects of Movement program are required to take Statistics 213.*

## B. Biomechanics Major (Honours) Requirements (36 units)

Earn at least 36 credits from the following:

- Engineering 202, 212, 311, 349
- Mathematics 211, 275, 277
- Kinesiology 396, 463, 590
- Mechanical Engineering 317

## C. Kinesiology options at the 300 level or above (not used above) (12 units)

Earn at least 12 credits from the following:

- Kinesiology options at the 300 level or above

## D. Open Options (18 units)

Earn at least 18 credits from the following:

- Open Options

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

The origins of Kinesiology at the University of Calgary date back to 1961 when the School of Physical Education was founded. In 1994, the name was changed to the Faculty of Kinesiology. Today, the faculty's curriculum and majors are recognized and accredited by the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA). The Faculty of Kinesiology offers a world-class environment for research and learning as well as superb training facilities for coaches and athletes at the varsity, community and Olympic level. The Faculty continues to work to improve the health and mobility of our society through our renowned research, which provides evidence of the benefits of exercise for all ages and demographics.

Kinesiology students receive high-quality and relevant, experiential learning opportunities that inform their future careers and contribute to the research and scholarship in the faculty and the university. The Faculty is also the home of the successful Dinos varsity teams, Olympic Oval, Active Living, Outdoor Centre, Sport Medicine Centre and the Human Performance Lab.

### Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the [Combined Degrees](#) chart for a list of allowable combinations.

The Exercise and Health Physiology Major (BSc) builds upon fundamental knowledge in human movement and physiological functioning to understand the physiological response to exercise (from activities of daily living to high performance sport), and also the impact of exercise and diet on the physiological determinants of health and human performance across the life span.

### Student Affairs

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the [Advising Office](#) a minimum of once per academic year to discuss any aspect of academic programs and student experience.

[Kinesiology Student Society \(KSS\)](#) is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

### Admissions

#### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements. Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

### Program Details

#### Simple Requisites

##### Faculty Requirements

##### Type

Completion Requirement

##### Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Additional Requirements for Bachelor of Science Programs

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations](#).

##### Additional Comments:

##### Program Requirements

##### Type

Completion Requirement

A. Kinesiology Core (54 units)

Earn at least 54 credits from the following:

- Kinesiology 201, 203, 213, 244, 251, 253, 259, 260, 263, 323, 337, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

*\*Students in the Motor and Psychosocial Aspects of Movement program are required to take Statistics 213.*

B. Exercise and Health Physiology Major Requirements (33 units)

Earn at least 33 credits from the following:

- Chemistry 201, 203, 351
- Biochemistry 341
- Mathematics 249 or 265
- Kinesiology 375, 433, 441
- 9 units from Kinesiology 303\*, 365, 377, 413, 437, 464, 465, 467, 469, 475, 478, 479, 485, 486, 493, 495, 505, 506, 565

*\*May be counted when the topic is appropriate*

C. Kinesiology Options at the 300 level or above (not used above) (6 units)

Earn at least 6 credits from the following:

- Kinesiology options at the 300 level or above

D. Open Options (27 units)

Earn at least 27 credits from the following:

- Open Options

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Honours Degree
- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

The origins of Kinesiology at the University of Calgary date back to 1961 when the School of Physical Education was founded. In 1994, the name was changed to the Faculty of Kinesiology. Today, the faculty's curriculum and majors are recognized and accredited by the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA). The Faculty of Kinesiology offers a world-class environment for research and learning as well as superb training facilities for coaches and athletes at the varsity, community and Olympic level. The Faculty continues to work to improve the health and mobility of our society through our renowned research, which provides evidence of the benefits of exercise for all ages and demographics. Kinesiology students receive high-quality and relevant, experiential learning opportunities that inform their future careers and contribute to the research and scholarship in the faculty and the university. The Faculty is also the home of the successful Dinos varsity teams, Olympic Oval, Active Living, Outdoor Centre, Sport Medicine Centre and the Human Performance Lab.

## Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the [Combined Degrees](#) chart for a list of allowable combinations.

The Exercise and Health Physiology Major (BSc) builds upon fundamental knowledge in human movement and physiological functioning to understand the physiological response to exercise (from activities of daily living to high performance sport), and also the impact of exercise and diet on the physiological determinants of health and human performance across the life span.

## Student Affairs

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the [Advising Office](#) a minimum of once per academic year to discuss any aspect of academic programs and student experience.

[Kinesiology Student Society \(KSS\)](#) is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements. Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

## Admission into Honours

Applicants to an Honours program must have completed a minimum of 90 units by the term in which they enter the Honours program. The completed units must include a junior level Statistics course, and a cumulative GPA of at least 3.30 over the completed 90 units (with a minimum GPA of 3.30 in all Kinesiology courses). These grade point averages must be maintained in order to retain Honours standing.

Students are strongly encouraged to consult with the Faculty's Advising Office prior to application.

## Program Details

### Simple Requisites

## Faculty Requirement

### Type

Completion Requirement

Graduation requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Honours Graduation Requirements
- Faculty of Kinesiology - Additional Requirements for Bachelor of Science Programs

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations.](#)

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 244, 251, 253, 259, 260, 263, 323, 337, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

*\*Students in the Motor and Psychosocial Aspects of Movement program are required to take Statistics 213.*

B. Exercise and Health Physiology Major (Honours) Requirements (36 units)

**Earn at least 36 credits from the following:**

- Chemistry 201, 203, 351
- Biochemistry 341
- Mathematics 249 or 265
- Kinesiology 375, 433
- 9 units of Kinesiology 303\*, 365, 377, 413, 437, 464, 465, 464, 469, 475, 4767, 478, 479, 485, 486, 493, 495, 505, 506, 565
- Kinesiology 590

*\*May be counted when the topic is appropriate.*

C. Kinesiology Options at the 300 level or above (not used above) (3 units)

**Earn at least 3 credits from the following:**

- Kinesiology options at the 300 level or above

D. Open Options (27 units)

**Earn at least 27 credits from the following:**

- Open Options

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

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## Pattern

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the **Combined Degrees** chart for a list of allowable combinations.

The Bachelor of Kinesiology and Bachelor of Science in Kinesiology offer a solid foundation with depth and breadth in the Kinesiology discipline. Students may tailor their degree to meet their needs and interests.

## Student Affairs

Academic advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the **Advising Office** a minimum of once per academic year to discuss any aspect of academic programs and student experience.

**Kinesiology Student Society (KSS)** is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the **Admissions** section of this Calendar.

Prospective students should refer to **A.5 Undergraduate Degree Admission Requirements** in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements. Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations.](#)

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 237, 244, 251, 253, 259, 260, 263, 323, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

#### B. Senior Kinesiology Options (24 units)

**Earn at least 24 credits from the following:**

- Senior Kinesiology Options

#### C. Senior non-Kinesiology Options (6 units)

**Earn at least 6 credits from the following:**

- Senior Non-Kinesiology Options

#### D. Junior or Senior non-Kinesiology Options (9 units)

**Earn at least 9 credits from the following:**

- Non-Kinesiology Options

#### E. Open Options (27 units)

**Earn at least 27 credits from the following:**

- Open Options

#### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Combined Degrees

The Faculty of Kinesiology offers a combined Bachelor of Kinesiology (Kinesiology)/Bachelor of Arts (Dance) with the Faculty of Arts, a Bachelor of Commerce/Bachelor of Kinesiology (Kinesiology) with the Haskayne School of Business and a concurrent Bachelor of Kinesiology (Kinesiology)/Bachelor of Education with the Werklund School of Education.

#### Complete ANY of the following Requirement Sets:

- Combined BComm/BKin (Kinesiology) Program
- Combined BKin (Kinesiology)/BA (Dance)
- Concurrent BKin (Kinesiology)/BEd

#### Other Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Kinesiology - Honours Degree
- Faculty of Kinesiology - Minors and Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

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## Pattern

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the **Combined Degrees** chart for a list of allowable combinations.

The Bachelor of Kinesiology and Bachelor of Science in Kinesiology offer a solid foundation with depth and breadth in the Kinesiology discipline. Students may tailor their degree to meet their needs and interests.

## Student Affairs

# UCalgary

Academic advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the [Advising Office](#) a minimum of once per academic year to discuss any aspect of academic programs and student experience.

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## Admissions

### Program Admissions Information

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## Admission into Honours

Applicants to an Honours program must have completed a minimum of 90 units by the term in which they enter the Honours program. The completed units must include a junior level Statistics course, and a cumulative GPA of at least 3.30 over the completed 90 units (with a minimum GPA of 3.30 in all Kinesiology courses). These grade point averages must be maintained in order to retain Honours standing.

Students are strongly encouraged to consult with the Faculty's Advising Office prior to application.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Honours Graduation Requirements

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 237, 244, 251, 253, 259, 260, 263, 323, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399

- Statistics 205 or 213\*

B. Honours Course Requirement (6 units)

**Earn at least 6 credits from the following:**

- Kinesiology 590

C. Senior Kinesiology Options (not used above) (18 units)

**Earn at least 18 credits from the following:**

- Senior Kinesiology Options

D. Senior non-Kinesiology Options (6 units)

**Earn at least 6 credits from the following:**

- Senior Non-Kinesiology Options

E. Junior or Senior non-Kinesiology Options (9 units)

**Earn at least 9 credits from the following:**

- Non-Kinesiology Options

F. Open Options (27 units)

**Earn at least 27 credits from the following:**

- Open Options

**Additional Comments:**

## Degree Options

### Type

### Completion Requirement

#### Combined Degrees

The Faculty of Kinesiology offers a combined Bachelor of Kinesiology (Kinesiology)/Bachelor of Arts (Dance) with the Faculty of Arts, a Bachelor of Commerce/Bachelor of Kinesiology (Kinesiology) with the Haskayne School of Business and a concurrent Bachelor of Kinesiology (Kinesiology)/Bachelor of Education with the Werklund School of Education.

**Complete ANY of the following Requirement Sets:**

- Combined BComm/BKin (Kinesiology) Program
- Combined BKin (Kinesiology)/BA (Dance)
- Concurrent BKin (Kinesiology)/BEd

#### Other Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

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## Pattern

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the [Combined Degrees](#) chart for a list of allowable combinations.

The Bachelor of Kinesiology and Bachelor of Science in Kinesiology offer a solid foundation with depth and breadth in the Kinesiology discipline. Students may tailor their degree to meet their needs and interests.

## Student Affairs

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## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements. Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

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## Second Baccalaureate Degree

Students who have received one or more approved undergraduate degrees (BA, BSc, BEd, etc.) may apply for admission to programs leading to a Second Baccalaureate Degree with a Major Field.

Students must apply to the Admissions Office and meet all deadlines and requirements. For more information on admission to a second undergraduate degree, refer to [A.5.5 Second-Degree Students](#) in Admissions. For more information regarding requirements for a second degree, see Graduation Requirements in the Program Details tab.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Additional Requirements for Bachelor of Science Programs

For other regulations related to the Faculty of Kinesiology, see: [3.1 Faculty of Kinesiology Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 237, 244, 251, 253, 259, 260, 263, 323, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

#### B. Senior Kinesiology Options (24 units)

**Earn at least 24 credits from the following:**

- Senior Kinesiology Options

#### C. Senior non-Kinesiology Options (6 units)

**Earn at least 6 credits from the following:**

- Senior Non-Kinesiology Options

#### D. Junior or Senior non-Kinesiology Options (9 units)

**Earn at least 9 credits from the following:**

- Non-Kinesiology Options

#### E. Open Options (27 units)

**Earn at least 27 credits from the following:**

- Open Options

#### Additional Comments:

#### Degree Options

##### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Honours Degree
- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

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## Pattern

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## Admissions

Program Admissions Information

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## Admission into Honours

Applicants to an Honours program must have completed a minimum of 90 units by the term in which they enter the Honours program. The completed units must include a junior level Statistics course, and a cumulative GPA of at least 3.30 over the completed 90 units (with a minimum GPA of 3.30 in all Kinesiology courses). These grade point averages must be maintained in order to retain Honours standing.

Students are strongly encouraged to consult with the Faculty's Advising Office prior to application.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Honours Graduation Requirements
- Faculty of Kinesiology - Additional Requirements for Bachelor of Science Programs

For other regulations related to the Faculty of Kinesiology, see: [\*\*3.1 Faculty of Kinesiology Regulations\*\*](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 237, 244, 251, 253, 259, 260, 263, 323, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

#### B. Honours Course Requirement (6 units)

**Earn at least 6 credits from the following:**

- Kinesiology 590

#### C. Senior Kinesiology Options (not used above) (18 units)

**Earn at least 18 credits from the following:**

- Senior Kinesiology Options

#### D. Senior non-Kinesiology Options (6 units)

**Earn at least 6 credits from the following:**

- Senior Non-Kinesiology Options

E. Junior or Senior non-Kinesiology Options (9 units)

Earn at least 9 credits from the following:

- Non-Kinesiology Options

F. Open Options (27 units)

Earn at least 27 credits from the following:

- Open Options

**Additional Comments:**

## Degree Options

### Type

### Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

#### Specialization:

- Applied Exercise Physiology

The Master of Kinesiology (MKin) is a course-based program specializing in Applied Exercise Physiology. This program is designed for continuous full-time enrolment and does not have a scheduled break.

Location: Kinesiology B, Room 139B

Program number: 403.220.5183

Email address: <mailto:knesgrad@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://www.ucalgary.ca/future-students/graduate/explore-programs/kinesiology-master-kinesiology-course-based>.

In addition to Faculty of Graduate Studies [admission](#) requirements, the Faculty of Kinesiology requires:

The following are the minimum requirements for applying to the program. Please note, normally applicants with higher GPAs are selected for admission to the program.

- a) A minimum grade of "B" or 3.00 in each of the following undergraduate prerequisite courses or equivalents: Anatomy, Exercise Physiology, Biomechanics, Exercise/Sport Psychology and Statistics.
- b) A minimum admission GPA of 3.00 or higher on a four-point scale over the last 60 units and/or two years of study in Kinesiology or an appropriate academic background for the area of specialization.
- c) A demonstrated ability to be self-motivated and capable of independent study as shown in undergraduate studies, volunteer work and/or work experience in exercise science areas will be considered.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Kinesiology requires:

- a) a total of 33 units at the graduate level:

**Complete ALL of the following Course Sets:**

- Master of Kinesiology, Course-based

Students may elect to complete **KNES698 Practicum IV** to extend their practicum experiences.

- b) A final applied project is considered the capstone event. This will be undertaken in conjunction with Kinesiology 618, 620 and 621.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced credit will be limited to 12 units with a grade of "B" or higher for students admitted to the Master of Kinesiology program. The student must request [advanced credit](#) in writing at the time of application for admission to the Faculty of Kinesiology.

### Flexible Grade Option (CG Grade)

The Faculty of Kinesiology will allow students in the Master of Kinesiology program to pursue the Flexible Grade Option (CG Grade) with the exception of Kinesiology 609, 610, and 611.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate credit may be granted for courses offered at the 500 level at the discretion of the Associate Dean (Graduate).

### Time Limit

Expected completion time is 16 months commencing in September. Maximum completion time is six years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

MKin students may apply for Graduate Assistantship (Teaching) positions.

## Overview

### General Program Information

#### Specializations:

- Biomechanics
- Exercise and Health Physiology
- Health, Exercise and Sport Psychology
- Innovation in Pedagogy and Sport Performance
- Neuro-Motor Psychology and Motor Learning
- Nutrition, Metabolism and Genetics
- Rehabilitation
- Sociocultural Aspects of Sport and Physical Activity
- Sport Medicine
- Wearable T

Location: Kinesiology B, Room 139B

Program number: 403.220.5183

Email address: <mailto:knesgrad@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/kinesiology-master-science-thesis-based>.

In addition to Faculty of Graduate Studies admission requirements, the Faculty of Kinesiology requires the following:

- a) Consent for supervision from an approved Faculty Member in Kinesiology.
- b) An appropriate academic background for the area of specialization.
- c) A minimum GPA of 3.00 or higher on a four-point scale over the last 60 units and/or last two years of study.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

#### Type

#### Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Kinesiology requires:

- a) One graduate-level course (3 units) in analysis, such as [KNES609 Stat Techniques in KNES](#) or [KNES610 Qualitative Research Analysis](#).
- b) One graduate-level course (3 units) in research design, such as [KNES611 Res Methods in Knesiology](#).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Flexible Grade Option (CG Grade)

The Faculty of Kinesiology will not permit the [Flexible Grade Option \(CG Grade\)](#) for students enrolled in the Master of Science and Doctor of Philosophy degrees.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate credit may be granted for courses offered at the 500 level at the discretion of the Associate Dean (Graduate).

### Time Limit

Expected completion time is two years. Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Supervisor(s) must be identified at the time of admission for thesis-based programs. Within six months of admission, the student and supervisor(s) must select a supervisory committee according to the Faculty of Graduate Studies' procedures. The composition of the supervisory committee must be approved by the Associate Dean (Graduate).

### Research Proposal Requirements

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Health Research Ethics Board before beginning data collection. Research with animals must receive approval from a University Animal Care Committee.

All Master of Science students must present a research proposal to their supervisory committee prior to commencing data collection. The proposal must include the objectives and methodology of the proposed research program as well as the expected contributions to the field. The supervisory committee must approve the thesis proposal before it is submitted to the Faculty of Kinesiology, Associate Dean (Graduate).

### Required Examinations

In addition to the Faculty of Graduate Studies requirements, the Faculty of Kinesiology requires:

### Thesis Examinations

Thesis Oral Examinations are administered according to the Faculty of Graduate Studies' procedures and are open examinations.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Prior to a doctoral or a Master's thesis oral examination being scheduled, the following program requirements must be met:

The student must provide a relevant written sample of their research which is comprised of the following:

- a) Table of Contents from the thesis;
- b) Thesis chapter or manuscript (prepared, submitted, accepted) for publication. In cases where a thesis chapter may consist of a literature review, it must be from the thesis and not the research proposal.

The supervisor must schedule a supervisory committee meeting where the student will present their results to the supervisory committee. The meeting may take place in person, via tele- or videoconference, or as a discussion via email. The supervisor and supervisory committee members must unanimously:

- a) agree the student has conducted sufficient work on their research project;
- b) approve the relevant written sample of research;
- c) approve the student to write their thesis and schedule a Thesis Oral Examination.

A final copy of supervisory committee meeting minutes (or relevant emails) must be submitted to the Graduate Program Office confirming that the above requirements have been met. Thesis examinations will not be approved by the Associate Dean (Graduate) until these are received.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Kinesiology funding policy and can be found at <https://kinesiology.ucalgary.ca/future-students/graduates/fees-funding>.

Thesis students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards). For information on other awards, please contact the Faculty of Kinesiology Graduate Program.

## **Overview**

### **General Program Information**

#### **Specializations:**

- Biomechanics
- Exercise and Health Physiology
- Health, Exercise and Sport Psychology
- Innovation in Pedagogy and Sport Performance
- Neuro-Motor Psychology and Motor Learning
- Nutrition, Metabolism and Genetics
- Rehabilitation
- Sociocultural Aspects of Sport and Physical Activity
- Sport Medicine

- Wearable T

Location: Kinesiology B, Room 139B

Program number: 403.220.5183

Email address: <mailto:knesgrad@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage: <http://www.ucalgary.ca/future-students/graduate/explore-programs/kinesiology-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies **admission** requirements, the Faculty of Kinesiology requires the following:

- Consent for supervision from an approved Faculty Member in Kinesiology.
- An appropriate academic background for the area of specialization.
- A minimum grade point average (GPA) of 3.00 or higher on a four-point scale over the last 60 units and/or last two years of study.
- Two reference letters.
- Written confirmation of external funding in accordance with policies of the Faculty of Kinesiology Graduate Program.
- A student may request a transfer from the Master of Science degree program to the doctoral degree program, upon the recommendation of the supervisory committee and subsequent approval of the Associate Dean (Graduate) and Dean, Faculty of Graduate Studies.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Kinesiology requires:

A minimum of 9 units at the graduate level selected according to the student's background research focus and approved by the graduate supervisor and supervisory committee.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Flexible Grade Option (CG Grade)

The Faculty of Kinesiology will not permit the **Flexible Grade Option (CG Grade)** for students enrolled in the Master of Science and Doctor of Philosophy degrees.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate credit may be granted for courses offered at the 500 level at the discretion of the Associate Dean (Graduate).

## Time Limit

Expected completion time is four years. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Supervisor(s) must be identified at the time of admission for thesis-based programs. Within six months of admission, the student and supervisor(s) must select a supervisory committee according to the Faculty of Graduate Studies' procedures. The composition of the supervisory committee must be approved by the Associate Dean (Graduate).

## Research Proposal Requirements

Students whose research involves human subjects must receive approval from the University of Calgary Conjoint Health Research Ethics Board before beginning data collection. Research with animals must receive approval from a University Animal Care Committee.

Doctoral students are required to prepare a written thesis proposal and obtain approval from the supervisory committee. For complete details of the proposal requirements, see [KNES Candidacy Requirements](#).

## Required Examinations

In addition to the Faculty of Graduate Studies requirements, the Faculty of Kinesiology requires:

## Doctoral Candidacy

Doctoral students must pass oral and written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see [KNES Candidacy Requirements document](#).

## Thesis Examinations

Thesis Oral Examinations are administered according to the Faculty of Graduate Studies' procedures and are open examinations.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Prior to a doctoral or a Master's thesis oral examination being scheduled, the following program requirements must be met:

The student must provide a relevant written sample of their research which is comprised of the following:

- a) Table of Contents from the thesis;
- b) Thesis chapter or manuscript (prepared, submitted, accepted) for publication. In cases where a thesis chapter may consist of a literature review, it must be from the thesis and not the research proposal.

The supervisor must schedule a supervisory committee meeting where the student will present their results to the supervisory committee. The meeting may take place in person, via tele- or videoconference, or as a discussion via email. The supervisor and supervisory committee members must unanimously:

- a) agree the student has conducted sufficient work on their research project;
- b) approve the relevant written sample of research;

c) approve the student to write their thesis and schedule a Thesis Oral Examination.

A final copy of supervisory committee meeting minutes (or relevant emails) must be submitted to the Graduate Program Office confirming that the above requirements have been met. Thesis examinations will not be approved by the Associate Dean (Graduate) until these are received.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students in thesis-based graduate programs will receive a graduate stipend as outlined in the Kinesiology funding policy and can be found at <https://kinesiology.ucalgary.ca/future-students/graduates/fees-funding>.

Thesis students are expected to apply to external agencies for financial support from scholarships or studentship awards and for University of Calgary Scholarships (see [Awards and Financial Assistance](#) section of this Calendar). Possible sources of financial support are listed on the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards). For information on other awards, please contact the Faculty of Kinesiology Graduate Program.

## Overview

### General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

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## Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the [Combined Degrees](#) chart for a list of allowable combinations.

The Leadership and Coaching Major (BKIn) develops leaders from developmental to high performance coaching opportunities.

## Student Affairs

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the [Advising Office](#) a minimum of once per academic year to discuss any aspect of academic programs and student experience.

[Kinesiology Student Society \(KSS\)](#) is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements.

Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 237, 244, 251, 253, 259, 260, 263, 323, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

*\*Students in the Motor and Psychosocial Aspects of Movement program are required to take Statistics 213.*

B. Leadership and Coaching Major Requirements (36 units)

**Earn at least 36 credits from the following:**

- Kinesiology 311, 331, 367, 399\*
- Kinesiology 402, 411, 431, 433, 441
- 9 units of Kinesiology 351\*, 375, 381, 397\*, 413, 434, 437, 444, 469, 472, 478, 499, 503, 505, 565

*\*May not be applied to both Core and another requirement within the same program.*

C. Open Options (30 units)

**Earn at least 30 credits from the following:**

- Open Options

Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Honours Degree
- Faculty of Kinesiology - Minors and Embedded Certificates

Additional Comments:

## Overview

General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

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## Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the **Combined Degrees** chart for a list of allowable combinations.

The Bachelor of Kinesiology and Bachelor of Science in Kinesiology offer a solid foundation with depth and breadth in the Kinesiology discipline. Students may tailor their degree to meet their needs and interests.

## Student Affairs

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the **Advising Office** a minimum of once per academic year to discuss any aspect of academic programs and student experience.

**Kinesiology Student Society (KSS)** is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

## Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements. Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

## Admission into Honours

Applicants to an Honours program must have completed a minimum of 90 units by the term in which they enter the Honours program. The completed units must include a junior level Statistics course, and a cumulative GPA of at least 3.30 over the completed 90 units (with a minimum GPA of 3.30 in all Kinesiology courses). These grade point averages must be maintained in order to retain Honours standing.

Students are strongly encouraged to consult with the Faculty's Advising Office prior to application.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

##### Complete ALL of the following Requirement Sets:

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Honours Graduation Requirements

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### A. Kinesiology Core (54 units)

##### Earn at least 54 credits from the following:

- Kinesiology 201, 203, 213, 237, 244, 251, 253, 259, 260, 263, 323, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 205 or 213\*

*\*Students in the Motor and Psychosocial Aspects of Movement program are required to take Statistics 213.*

#### B. Leadership and Coaching Major (Honours) Requirements (36 units)

##### Earn at least 36 credits from the following:

- Kinesiology 311, 331, 367, 399\*
- Kinesiology 402, 411, 431, 433, 441
- 3 units of Kinesiology 351\*, 375, 381, 397\*, 413, 434, 437, 444, 472, 478, 503, 505, 565

- Kinesiology 590

*\*May not be applied to both Core and Senior Option requirements.*

C. Open Options (30 units)

Earn at least 30 credits from the following:

- Open Options

Additional Comments:

### Degree Options

#### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Minors and Embedded Certificates

Additional Comments:

## Overview

General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

## Introduction

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## Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the **Combined Degrees** chart for a list of allowable combinations.

The Motor and Psychosocial Aspects of Movement in Kinesiology Major (BKIn or BSc) provides a comprehensive education in the areas of behavioural neurosciences, cognition and neuro-motor control, and the application of personality and social psychological principles to the fields of exercise and health psychology, and sport psychology.

## Student Affairs

# UCalgary

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the [Advising Office](#) a minimum of once per academic year to discuss any aspect of academic programs and student experience.

[Kinesiology Student Society \(KSS\)](#) is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements. Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Kinesiology - Graduation Requirements

For other regulations related to the Faculty of Kinesiology, see: [3. Faculty of Kinesiology Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### A. Kinesiology Core (54 units)

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 244, 251, 253, 259, 260, 263, 323, 337, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 213 A

#### B. Motor and Psychosocial Aspects of Movement Major Requirements (24 units)

**Earn at least 24 credits from the following:**

- Psychology 200, 201
- Statistics 217
- 6 units from Kinesiology 311, 331, 351\*, 397\*, 399\*

- 3 units from Kinesiology 402, 411, 413, 431, 434, 441, 451, 464, 486, 497, 498, 499
- 6 units from Health and Society 201, 301, 311, Kinesiology 402, 444, 503, 590, 593; Philosophy 201, 313, 361, Psychology 345, 352, 365, 375, 383; Sociology 201, 321, 341, 407, 409

*\*May not be applied to both Core and another requirement within the same program.*

C. Kinesiology options at the 300 level or above (not used above) (12 units)

**Earn at least 12 credits from the following:**

- Kinesiology options at the 300 level or above

D. Open Options (30 units)

**Earn at least 30 credits from the following:**

- Open Options

**Additional Comments:**

### Degree Options

#### Type

#### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Honours Degree
- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

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## Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the [Combined Degrees](#) chart for a list of allowable combinations.

The Motor and Psychosocial Aspects of Movement in Kinesiology Major (BKIn or BSc) provides a comprehensive education in the areas of behavioural neurosciences, cognition and neuro-motor control, and the application of personality and social psychological principles to the fields of exercise and health psychology, and sport psychology.

## Student Affairs

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the [Advising Office](#) a minimum of once per academic year to discuss any aspect of academic programs and student experience.

[Kinesiology Student Society \(KSS\)](#) is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

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Applicants to an Honours program must have completed a minimum of 90 units by the term in which they enter the Honours program. The completed units must include a junior level Statistics course, and a cumulative GPA of at least 3.30 over the completed 90 units (with a minimum GPA of 3.30 in all Kinesiology courses). These grade point averages must be maintained in order to retain Honours standing.

Students are strongly encouraged to consult with the Faculty's Advising Office prior to application.

## Program Details

### Simple Requisites

<b>Faculty Requirements</b> <b>Type</b> Completion Requirement
<div>Graduation Requirements</div> <div><b>Complete ALL of the following Requirement Sets:</b><ul style="list-style-type: none"><li>• Faculty of Kinesiology - Graduation Requirements</li><li>• Faculty of Kinesiology - Honours Graduation Requirements</li></ul></div> <div>For other regulations related to the Faculty of Kinesiology, see: <a href="#">3. Faculty of Kinesiology Regulations</a>.</div>
<b>Additional Comments:</b>
<b>Program Requirements</b>

## Type

### Completion Requirement

#### A. Kinesiology Core (54 units)

##### Earn at least 54 credits from the following:

- Kinesiology 201, 203, 213, 237, 244, 251, 253, 259, 260, 263, 323, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 213 A

#### B. Motor and Psychosocial Aspects of Movement Major (Honours) Requirements (24 units)

##### Earn at least 24 credits from the following:

- Psychology 200, 201
- Statistics 217
- 6 units from Kinesiology 311, 331, 351\*, 397\*, 399\*
- 3 units from Kinesiology 402, 411, 413, 431, 434, 441, 451, 464, 486, 497, 498, 499
- Kinesiology 590

*\*May not be applied to both Core and another requirement within the same program.*

#### C. Senior Kinesiology options (not used above) (12 units)

##### Earn at least 12 credits from the following:

- Kinesiology options at the 300 level or above

#### D. Open Options (30 units)

##### Earn at least 30 credits from the following:

- Open Options

### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Kinesiology - Minors and Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

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## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Graduation Requirements

##### Complete ALL of the following Requirement Sets:

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Additional Requirements for Bachelor of Science Programs

For other regulations related to the Faculty of Kinesiology, see: [3.1 Faculty of Kinesiology Regulations](#).

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**A. Kinesiology Core (54 units)**

**Earn at least 54 credits from the following:**

- Kinesiology 201, 203, 213, 244, 251, 253, 259, 260, 263, 323, 337, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 213 A

**B. Motor and Psychosocial Aspects of Movement Major Requirements (24 units)**

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- 3 units from Kinesiology 402, 411, 413, 431, 434, 441, 451, 464, 486, 497, 498, 499
- 6 units from Health and Society 201, 301, 311, Kinesiology 402, 444, 503, 590, 593; Philosophy 201, 313, 361, Psychology 345, 352, 365, 375, 383; Sociology 201, 321, 341, 407, 409

*\*May not be applied to both Core and another requirement within the same program.*

**C. Senior Kinesiology options (not used above) (12 units)**

**Earn at least 12 credits from the following:**

- Senior Kinesiology Options

**D. Open Options (30 units)**

**Earn at least 30 credits from the following:**

- Open Options

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

**Degree Options**

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Honours Degree
- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

**Location:** Kinesiology B 142/143

**Email address:** [knesinfo@ucalgary.ca](mailto:knesinfo@ucalgary.ca)

**Website:** [kinesiology.ucalgary.ca](http://kinesiology.ucalgary.ca)

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## Introduction

The origins of Kinesiology at the University of Calgary date back to 1961 when the School of Physical Education was founded. In 1994, the name was changed to the Faculty of Kinesiology. Today, the faculty's curriculum and majors are recognized and accredited by the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA). The Faculty of Kinesiology offers a world-class environment for research and learning as well as superb training facilities for coaches and athletes at the varsity, community and Olympic level. The Faculty continues to work to improve the health and mobility of our society through our renowned research, which provides evidence of the benefits of exercise for all ages and demographics. Kinesiology students receive high-quality and relevant, experiential learning opportunities that inform their future careers and contribute to the research and scholarship in the faculty and the university. The Faculty is also the home of the successful Dinos varsity teams, Olympic Oval, Active Living, Outdoor Centre, Sport Medicine Centre and the Human Performance Lab.

## Undergraduate Programs

In addition to a core curriculum, all undergraduate students pursuing a combined or concurrent degree with another faculty, refer to the [Combined Degrees](#) chart for a list of allowable combinations.

The Motor and Psychosocial Aspects of Movement in Kinesiology Major (BKIn or BSc) provides a comprehensive education in the areas of behavioural neurosciences, cognition and neuro-motor control, and the application of personality and social psychological principles to the fields of exercise and health psychology, and sport psychology.

## Student Affairs

Academic Advisors in the Advising Office are available for program consultation during regular office hours. Students are encouraged to contact the [Advising Office](#) a minimum of once per academic year to discuss any aspect of academic programs and student experience.

[Kinesiology Student Society \(KSS\)](#) is an undergraduate club responsible for academic and social activities. The main objective is to build spirit and rapport within the Faculty.

## Admissions

### Program Admissions Information

Students should refer to the Standard Admission requirements listed in the [Admissions](#) section of this Calendar.

Prospective students should refer to [A.5 Undergraduate Degree Admission Requirements](#) in the Admissions section of this Calendar for regulations regarding University admission requirements. Applicants must meet all deadlines and requirements. Refer to [ucalgary.ca/future-students/undergraduate/explore-programs](http://ucalgary.ca/future-students/undergraduate/explore-programs).

The Faculty of Kinesiology admits students to the Fall Term only.

All programs offered by the Faculty of Kinesiology have a fixed number of places for students. For any given program, whenever demand exceeds capacity, enrolment will be limited and students will be admitted on the basis of descending ranked academic performance until that capacity is met.

## Admission into Honours

Applicants to an Honours program must have completed a minimum of 90 units by the term in which they enter the Honours program. The completed units must include a junior level Statistics course, and a cumulative GPA of at least 3.30 over the completed 90 units (with a minimum GPA of 3.30 in all Kinesiology courses). These grade point averages must be maintained in order to retain Honours standing.

Students are strongly encouraged to consult with the Faculty's Advising Office prior to application.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Graduation Requirements

##### Complete ALL of the following Requirement Sets:

- Faculty of Kinesiology - Graduation Requirements
- Faculty of Kinesiology - Honours Graduation Requirements
- Faculty of Kinesiology - Additional Requirements for Bachelor of Science Programs

For other regulations related to the Faculty of Kinesiology, see: [\*\*3.1 Faculty of Kinesiology Regulations.\*\*](#)

#### Additional Comments:

#### Program Requirements

##### Type

##### Completion Requirement

#### A. Kinesiology Core (54 units)

##### Earn at least 54 credits from the following:

- Kinesiology 201, 203, 213, 244, 251, 253, 259, 260, 263, 323, 337, 344, 355, 363, 372, 373
- One of Kinesiology 351, 397, or 399
- Statistics 213 A

#### B. Motor and Psychosocial Aspects of Movement Major (Honours) Requirements (24 units)

##### Earn at least 24 credits from the following:

- Psychology 200, 201
- Statistics 217
- 6 units from Kinesiology 311, 331, 351\*, 397\*, 399\*
- 3 units from Kinesiology 402, 411, 413, 431, 434, 441, 451, 464, 486, 497, 498, 499
- Kinesiology 590

#### C. Kinesiology options at the 300 level or above (12 units)

##### Earn at least 12 credits from the following:

- Kinesiology options at the 300 level or above

#### D. Open Options (30 units)

##### Earn at least 30 credits from the following:

- Open Options

#### Additional Comments:

#### Degree Options

## Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Kinesiology - Minors and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Wearable Technology at the master's and doctoral levels for students registered in the following faculties and graduate programs:

- Faculty of Kinesiology
- Biomedical Engineering Graduate Program
- Geomatics Engineering Graduate Program
- Department of Electrical and Software Engineering
- Department of Computer Science
- Department of Psychology
- Computational Media Design Graduate Program

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

Faculty of Kinesiology

Location: KNB 269

Program number: 403.220.7019

Email address: <mailto:kirsten.penrose@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates/our-programs/wearable>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Wearable Technology specialization are available on the Future Students website for the home graduate program.

- [MSCT Kines](#)
- [PHD Kinesi](#)
- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Geoma](#)
- [PHD Geomat](#)
- [Engineerin](#)
- [Engineerin](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Comp](#)

- [PhD Comp M](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Applicants must meet the [admission](#) requirements of the Faculty of Graduate Studies and the home program that offers the Wearable Technology specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

##### MSc (thesis-based)

In addition to meeting the requirements of Faculty of Graduate Studies ([see regulations](#)) and the home program, MSc students in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).

2. [ENTI625 Intro to Entrepreneurship](#)

3. Completion of a practicum placement [KNES612.01 Practicum I](#)

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, supervisor, and supervisory committee.

##### Doctor of Philosophy

In addition to meeting the requirements of Faculty of Graduate Studies and the home program, PhD trainees in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).

2. [ENTI625 Intro to Entrepreneurship](#)

3. Completion of a practicum placement [KNES612.01 Practicum I](#)\*

4. One (3 unit) elective in Biomechanics, OR Data Science, OR Data Visualization\*\* at the 600 or 700 level.

*\*With the support of the student's home program and Faculty of Graduate Studies, the student may complete Kinesiology 612 either before or after admission to candidacy.*

*\*\*Must be approved by the specialization Director, the student's Supervisor and Supervisory Committee.*

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, Supervisor, and Supervisory Committee.

Students are expected to attend the annual Wearable Technology Workshop held each Fall semester and participate in the Wearable Technology Lecture series.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process.

### Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

### Supervisory Assignments

See requirements of home program.

### Required Examinations

See requirements of home program and the Faculty of Graduate Studies ([Academic Regulations](#)).

### Financial Assistance

See home program.

## Faculty of Law Department

Summary of Degree Programs

Faculty Information

Faculty Regulations

Admissions

Program Details

Administration

Courses of Instruction by the Faculty of Law

## Programs

### Overview

General Program Information

**Applications for this interdisciplinary specialization are not current being accepted.**

The University offers an interdisciplinary specialization in Energy and Environmental Systems to students registered in an existing graduate program currently offered through one of the following Faculties that are affiliated with the Institute for Sustainable Energy, Environment and Economy (ISEEE):

- School of Architecture, Planning and Landscape
- Faculty of Arts
- Haskayne School of Business
- Faculty of Law
- Faculty of Science
- Schulich School of Engineering

In cases where the student's proposed research area cannot be supported through a single academic program, and which would necessitate the combination of at least two academic areas, they may seek admission and earn the EES specialization through the Interdisciplinary Graduate Program (IGP) of the Faculty of Graduate Studies.

## Admissions

### Program Admissions Information

There are no deadlines for applying for admission into the EES Specialization; however, students will only be admitted into the EES Specialization on January 1, May 1 and September 1. Students who are already enrolled in a graduate program at the University of Calgary are able to apply to the EES Specialization.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, all applicants must meet the minimum admission requirements of the home graduate program and ISEEE. To apply for the specialization, students must complete an online EES specialization application form: <http://science.ucalgary.ca/iseee/student/apply-now>.

When applying to the EES specialization, students must have already applied to a home graduate program, faculty, or department and must already have a supervisor. Successful candidates must be approved for admission by both the home graduate program as well as by EES. Admission to a degree program does not guarantee entrance to the EES specialization. Likewise, admission to the EES specialization does not guarantee entrance to a degree program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies ([see regulations](#)) and the home graduate program's requirements, students undertaking the EES specialization must successfully complete the following:

#### EES Specialization at the Master's Level

Students in the EES specialization are required to complete four courses, which include:

- Energy and Environmental Systems 601: Introduction to Energy and Environmental Systems
- Energy and Environmental Systems 607: Tools for System Analysis

The remaining two courses must be electives approved by the EES Graduate Studies Committee. These courses are intended to bolster a student's background in energy and environmental systems and/or interdisciplinary research methods, and may be taken in other faculties, schools, or departments at the University of Calgary.

Master's students must also comply with the requirements of their home graduate program. In addition to these course requirements, students must conduct research that takes an interdisciplinary approach to a real-world problem in the area of energy and environmental systems. Students must also actively partake in EES seminars and activities, and contribute meaningfully to the interdisciplinary culture of the specialization.

#### EES Specialization at the Doctoral Level

Students who have previously earned a master's degree with the EES specialization cannot enrol into the EES specialization as a PhD student. Doctoral students are required to take the same EESS core courses that are required at the master's level and two electives in the area of energy and environment. Doctoral students must also comply with requirements of their home graduate program.

#### EES Specialization with MGIS Degree (course-based)

Students enrolled in the Master of Geographic Information Systems degree program who wish to earn the EES specialization will need to take three of the EES courses (Energy and Environmental Systems 601, 603, and one other). Students are not required to take Geography 683, but must take the other core courses in the MGIS program (Geography 647, 633, 639, and 681). Finally, students will still be required to fulfill the 30 units (5.0 full-course equivalents) requirement of the MGIS program, and can select the remaining three courses from Geography optional courses or EES related courses. It is not recommended that students required to complete the MGIS upgrade courses undertake the EES specialization.

#### EES Specialization with the Interdisciplinary Graduate Program (IGP)

The course curriculum for IGP students will be determined at the IGP admission seminar. Course requirements will typically include the EES core courses, but may also include other courses to ensure adequate coverage of the relevant disciplines involved. Changes to the student's curriculum after the admission seminar will require the approval of the Supervisory Committee, IGP Director, and the Faculty of Graduate Studies.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Requests for advanced credit must be made at the time of application. Credit will not be granted for course work taken as part of another completed degree/diploma or for courses taken to bring the admission GPA to the required level.

## Credit for Undergraduate Courses

Students are allowed to take only one 500-level course for graduate credit, subject to the approval of the EES Graduate Studies Committee. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

## Time Limit

Expected completion time for a master's degree is two years and the maximum completion time is four years.

Expected completion time for the PhD degree is four years and the maximum completion time is six years.

## Supervisory Assignment and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students must meet supervisory requirements of home department.

## Required Examinations

Final thesis orals follow the requirements of the Faculty of Graduate Studies and the home graduate program. Students in doctoral programs must fulfill the written candidacy examination requirement of the home graduate program. All doctoral students must complete the candidacy oral examination in accordance with Faculty of Graduate Studies' regulations.

## Research Proposal Requirements

If a research proposal is required by the home department, then a copy of the proposal must be submitted to the EES Graduate Studies Committee and will be placed on file.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available on a competitive basis to all qualified full-time graduate students enrolled in the EES specialization. Students are also encouraged to seek funding opportunities through the Faculty of Graduate Studies' Open Scholarship Competition (contact the home program for application deadlines), as well as external funding agencies.

## Overview

### General Program Information

## Contact Information

**Location:** Murray Fraser Hall Room 2380

**Student Information:** 403.220.4155

**Faculty number:** 403.220.7115

**Email address:** [law@ucalgary.ca](mailto:law@ucalgary.ca)

**Web page:** [law.ucalgary.ca](http://law.ucalgary.ca)

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## Introduction

The Faculty of Law's Juris Doctor (JD) program will prepare you for a variety of roles within the legal system. Designed to lay the groundwork for the development of competent, talented, creative and sensitive professionals, our program prepares you for the rapidly changing society in which the imagination and human qualities of the legally-trained person will be challenged to the fullest.

The Faculty of Law offers a course-based Master of Laws (LLM), a thesis-based LLM, and a Graduate Certificate, all with a specialization in natural resources, energy, and environmental law. We also offer a thesis-based LLM without a specialization. For more information about our graduate programs, consult the Faculty of Graduate Studies Calendar.

## JD Program

The first year of the JD program is common to all students, and consists of intensive courses in Foundations of Law and Justice (in September and January) as well as courses in Legislation, Constitutional Law, Crime: Law and Procedure, Property, Torts and Contracts.

In the second and third year of the program students complete required courses in Civil Procedure, Administrative Law, Ethical Lawyering, Evidence, Negotiation and Advocacy. They will also take one course within the areas of international law and theoretical perspectives on the law, and fulfill an upper year writing requirement. Students choose the remainder of their courses from their area or areas of interest.

Students in joint degree programs will complete all of the required elements of the JD program.

Students at the Faculty have the opportunity to participate in extra-curricular activities related to the study and practice of law including the Student Legal Assistance legal clinic and Pro Bono Students Canada. In addition, many courses at the Faculty incorporate performance-based learning or have a clinical component.

Courses at the Faculty cover the breadth of the substance and process of law, but also reflect the Faculty's specialties in natural resources, energy and environmental law, and legal practice.

The Faculty of Law has identified the following minimum standard of competence for our graduates:

### 1. Substantive legal knowledge

All law graduates should have developed an understanding of:

- The principles and jurisprudence comprising foundational doctrinal areas of law (e.g., torts, contracts, constitutional, property, criminal and administrative law)
- The principles underlying common law and equity
- Developed knowledge of the sources of law, including the structure of, and relationship between, the branches of government
- The role of legislation in the common law system

### 2. The context of law

All law graduates should have developed an appreciation of:

- Various perspectives on law, including theoretical, historical and comparative perspectives
- The implications of international, multidisciplinary and technological innovations for law and legal practice

## UCalgary

- The role of policy and its intersection with law
- The problem of access to justice and the role for lawyers in ameliorating it

### 3. Legal research

All law graduates should possess the ability to:

- Develop a coherent research strategy
- Identify and assess sources of legal and non-legal information appropriate to the particular issue(s) or matters

### 4. Legal analysis and reasoning

All law graduates should have developed the skills necessary for:

- Developing legal arguments and providing legal opinions, including the interpretation and application of statutes and case law
- Identifying, investigating and assessing a problem, both factually and legally placing a problem within a broader context as appropriate
- Understanding the relationship between different normative orderings, such as the relationship between international and domestic law methods
- Critiquing their own legal reasoning and that of others from substantive, normative and procedural perspectives

### 5. Legal communication

All law graduates should have developed the skills necessary for:

- Counseling and advising, including ascertaining the client's needs, wishes and risks, providing options to the client, and helping the client to select the appropriate option
- Effective negotiation, advocacy and collaboration
- Clear and accurate communication in a format appropriate to its purpose
- Drafting formal documents
- Evaluating communication to assess its effectiveness and impact
- Interpersonal skills, including teamwork and collaboration

### 6. Dispute resolution skills

All law graduates should have:

- Familiarity with drafting and transactional skills relevant to the prevention of disputes
- Knowledge of the characteristics and procedures of available forms of dispute resolution
- The understanding necessary to recommend appropriate form(s) of dispute resolution, whether consensus or adjudicative, for particular settings and specific conflicts

### 7. Ethics

All law graduates should have developed a critical understanding of:

- The normative foundations of the lawyer's role
- The scope and limits of the lawyer's role
- The law governing lawyers and legal practice
- The capacity to identify and resolve ethical dilemmas

## Opportunities

To practice law in Canada a lawyer must be a member of a provincial law society, (in Alberta, the Law Society of Alberta). The JD program at the University of Calgary is approved as a law degree sufficient for admission to the Canadian common law law

societies. The LLM programs at the University of Calgary are not approved as law degrees sufficient for admission to the Canadian common law law societies and do not allow students to satisfy the requirements for law society admission through the National Committee on Accreditation. The Foreign Trained Lawyers Program post-bachelor's certificate is designed to assist lawyers educated outside of Canada to meet their National Committee on Accreditation requirements, once their credentials have been assessed by the National Committee on Accreditation.

Graduates from the University of Calgary Faculty of Law work in a wide variety of settings. Many graduates work in legal practice assisting individuals, corporations, organizations and government with their legal needs. Faculty of Law graduates also work, however, in diverse professional, business and creative endeavours, including as legislators, judges, executives, entrepreneurs and academics.

The Faculty of Law at the University of Calgary works with all of our graduates to help them secure employment subsequent to graduation. Information on the Faculty's Career and Development Office can be found here: [ucalgary.ca/lawcareers](http://ucalgary.ca/lawcareers).

## Student Affairs

The Society of Law Students is the official student association recognized by the Faculty of Law to represent the interests of all students in the undergraduate law program. The Society is responsible for providing law students with social, sporting, academic, volunteering, and administrative services, as well as being the official liaison between the student body and the Faculty, University and broader legal community.

## Admissions

### Program Admissions Information

Contact the Faculty Admissions Office or visit the Faculty of Law website ([law.ucalgary.ca](http://law.ucalgary.ca)) to obtain the most up-to-date information.

## Program Details

### Simple Requisites

#### JD Program Requirements for Graduation

##### Type

Completion Requirement

##### Course Requirements

Students must complete a total of 98 units in Law courses, including achieving a satisfactory performance (a "C-", or higher, or "CR") in the following courses:

**Earn at least 98 credits from the following:**

- Law 400, 402, 403, 404, 406, 407, 408, 410, 503, 505, 507, 508, 510, 602

##### Additional Comments:

##### Additional Requirements

Students must achieve satisfactory performance ("C-", or higher) in a course that meets the following requirements. See the Faculty of Law website ([law.ucalgary.ca](http://law.ucalgary.ca)) for more information.

- Upper-Year Writing
- International
- Theoretical Perspectives

Note that all upper-year (i.e., second and third year) JD students must register for at least 12 units per term, to a maximum of 18, and for at least 31 units per year, to a maximum of 36.

## Faculty of Law Regulations

### Type

Completion Requirement

### Additional Comments:

## Faculty Regulations

Students in the Faculty of Law are governed by the Faculty Regulations and also by the Academic Regulations section of this Calendar. The Faculty Regulations can be found here: [law.ucalgary.ca/sites/default/files/teams/2/faculty-regulations-june-2015.pdf](http://law.ucalgary.ca/sites/default/files/teams/2/faculty-regulations-june-2015.pdf).

## Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the Flexible Grade Option (CG Grade) on any course.

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate application for admission to the other program. The respective Combined Program Committee will review each application.

Please note that receiving admission to both individual programs does not guarantee admission to the combined program.

For MBA admission requirements, see [Master of](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

A student admitted to the combined JD/MBA program spends the first year doing core studies in one program and the second year doing core studies in the other program. The remaining years in the program combine Law and Business courses in a way that will allow the achievement of both degrees in four rather than five years. Course requirements include:

a) MBA courses (45 units):

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses

plus:

- one elective course (3 units) in the student's area of interest.

b) Law courses (83 units):

**Complete ALL of the following Requirement Sets:**

- JD/MBA Law Courses

plus:

- a minimum of eight 3-unit electives.

#### **Additional Comments:**

Attendance at an orientation session is mandatory for all incoming students in all MBA program options.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

The applicant must make **Advanced Credit** requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### **Flexible Grade Option (CG Grade)**

Students admitted to a combined MBA program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### **Time Limit**

MBA: six years

#### **Financial Assistance**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

The JD/MPP program is normally restricted to full-time study. It allows students to obtain both degrees in a significantly shorter time frame than if they are taken separately.

Email address: <mailto:mpp@ucalgary.ca>

Web page URL: <https://spp.ucalgary.ca> and <https://law.ucalgary.ca/future-students/our-jd-programs/joint-jd-programs#jd-mpp>

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications: <http://www.ucalgary.ca/future-students/graduate/explore-programs/public-policy-master-public-policy-course-based>.

Students must meet the [admission](#) requirements for the Faculty of Graduate Studies and those for the JD and MPP programs. Please consult the JD Student Services Coordinator or the MPP Office for more information.

A separate application for the MPP and for the JD is required for the combined JD/MPP program. See [deadlines for each program](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the School of Public Policy requires that all students complete the following:

33 units consisting of:

a) Ten core courses:

**Complete ALL of the following Course Sets:**

- Core MPP Courses

b) A total of six units of electives. This can include [PPOL699 Topics in Public Policy](#) or other graduate-level coursework approved by the Graduate Program Director. The two elective courses should be related in such a way that they form a focus in an area of public policy.

#### Additional Comments:

### Combined JD/MPP

One three-unit [JD course](#) will be counted toward the MPP core requirements set out in (a) and one three-unit [JD course](#) will be counted toward the elective requirement set out in (b). All other requirements set out in (a)–(b) apply to students in the joint program.

Students will normally complete all of the first-year compulsory courses in Law in the first year of their program and all MPP courses including [PPOL620 Capstone Preparation](#) and [PPOL623 Capstone Project](#) (capstone) in year two. In their third year, they complete their [JD courses](#). Please consult the MPP or the JD Office for more information.

## Copyediting

The School of Public Policy does not allow copyediting on students' work.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma. If graduate-level courses are taken as post-BA courses and not used as credit towards another degree, the School may allow the student to claim up to 6 units at our graduate level towards the MPP requirements should the student be admitted into the MPP program.

### Flexible Grade Option (CG Grade)

Students admitted to the Master of Public Policy program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will affect students' ability for internal awards.

### Credit for Undergraduate Courses

No credit will be given for courses taken below the 600-level, except in special cases.

### Time Limit

Maximum completion time for the MPP is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All MPP students in the program will be guided by faculty holding appointments to the School.

### Required Examinations

No additional examinations outside of the courses are required.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students admitted to the MPP program will automatically be considered for financial awards from the School. For information on awards, see the [website](#) for the School and the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

Attaining an LLM degree without a Canadian LLB degree will not qualify graduates to practice law in Canada. Inquiries on this issue must be addressed to the appropriate provincial governing body for the legal profession. In Alberta, contact the Law Society of Alberta or the National Committee on Accreditation of the Federation of Law Societies of Canada.

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Master of Laws (LLM), course-based with major research project

### Specialization:

- Natural Resources, Energy and Environmental Law

LLM Students may elect not to have an area of specialization.

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The course-based LLM program is available for full-time or part-time enrolment.

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Location: Murray Fraser Hall

Program number: 403.210.8718

Fax: 403.210.9662

Email address: <mailto:law@ucalgary.ca>

Web page URL: <https://law.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/law-master-laws-course-based>.

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In addition to the [admission requirements](#) of the Faculty of Graduate Studies, the Faculty of Law requires:

- Ordinarily, a JD, LLB or equivalent degree in Law.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL Internet-based score of 97, with a minimum of 25 on the reading and writing components; or the minimum IELTS overall band score of 7.0, with a reading and writing band minimum of 7.0; or a CAEL score of 70, with a minimum of 70 on reading and writing components; or a PTE score of 68. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in the Academic Writing and Composition course, a minimum grade of "A-" in the Research Writing and Form course, and a minimum grade of "B+" in other courses.
- LLM program applicants must submit a brief statement of their proposed thesis or major paper, and applicants to the thesis-based program must also indicate their proposed supervisor. Details are available from the Faculty. For applicants interested in the specialization in Natural Resources, Energy, and Environmental Law, the proposal must be in this area.
- LLM program applicants must submit a writing sample.
- Two reference letters.
- An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

Program/Course Requirements Type
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#### Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Law requires:

- a) [LAW703 Grad Sem Legal Res & Method](#). Students must receive a passing grade in this course to advance in the program.
- b) 15 units of elective courses as follows:

#### LLM with specialization in Natural Resources, Energy or Environmental Law:

15 units of elective courses at the 500 level or higher in the areas of natural resources, energy and environmental law or in graduate-level courses in a related area or discipline, approved by the Graduate Program Director.

- At least 6 units must be law courses at 600 level or higher.
- At least 6 units must be from law courses that include a research paper evaluation worth at least 50 percent of the course grade.
- 3 of these units may be [LAW705 Grad Seminar Legal Theory](#).

#### LLM without a specialization:

15 units of elective law courses at the 500 level or higher, or in graduate-level courses in a related area or discipline, approved by the Graduate Program Director.

- No more than 3 units may be taken outside of the Faculty of Law; any course taken outside the Faculty of Law must be approved by the Graduate Program Director.
- At least 6 units must be law courses at 600 level or higher.
- At least 6 units must be from law courses that include a research paper evaluation worth at least 50 percent of the course grade.

c) [LAW707 Major Research Paper I](#) and [LAW708 Major Research Paper II](#): A major research paper, approximately 50 to 60 pages (15,000–18,000 words) in length, evaluated on a Pass/Fail basis by the instructor and a second reader appointed by the Graduate Program Director. Students enrolled in the specialization in Natural Resources, Energy and Environmental Law must complete their major papers in this area.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. On a case-by-case basis, advanced credit toward an LLM or PhD program may be given for courses completed in a graduate program within the Faculty of Law or another recognized institution. Courses for which advanced credit is being sought must not have been used for any previously completed degree/diploma/certificate credential.

#### Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Certain JD courses are eligible for credit toward the LLM program.

#### Time Limit

All requirements for the course-based LLM degree must be completed within five years of initial registration. It is expected that full-time students will complete the program in 16 months.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students, although funding for course-based LLM and Graduate Certificate students will very rarely be provided. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar or the Faculty of Law Calendar or [website](#).

Students applying for scholarships must submit their scholarship applications to the Faculty of Law by the deadlines for completed admission applications.

## Overview

### General Program Information

Attaining an LLM degree without a Canadian LLB degree will not qualify graduates to practice law in Canada. Inquiries on this issue must be addressed to the appropriate provincial governing body for the legal profession. In Alberta, contact the Law Society of Alberta or the National Committee on Accreditation of the Federation of Law Societies of Canada.

### Specializations:

- Natural Resources, Energy and Environmental Law
- Energy and Environmental Systems (EES-G-SPC - Missing program)

Location: Murray Fraser Hall

Program number: 403.210.8718

Fax: 403.210.9662

Email address: <mailto:law@ucalgary.ca>

Web page URL: <https://law.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/law-master-laws-thesis-based>.

In addition to the [admission](#) requirements of the Faculty of Graduate Studies, the Faculty of Law requires:

a) Ordinarily, a JD, LLB or equivalent degree in Law.

b) For applicants required to provide proof of proficiency in English, a minimum TOEFL Internet-based score of 97, with a minimum of 25 on the reading and writing components; or the minimum IELTS overall band score of 7.0, with a reading and writing band minimum of 7.0; or a CAEL score of 70, with a minimum of 70 on reading and writing components; or a PTE score of 68. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in the Academic Writing and Composition course, a minimum grade of "A-" in the Research Writing and Form course, and a minimum grade of "B+" in other courses.

c) LLM program applicants must submit a brief statement of their proposed thesis or major paper, and applicants to the thesis-based program must also indicate their proposed supervisor. Details are available from the Faculty. For applicants interested in the specialization in Natural Resources, Energy, and Environmental Law, the proposal must be in this area.

d) LLM program applicants must submit a writing sample.

e) Two reference letters.

f) An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Law requires:

a) [LAW703 Grad Sem Legal Res & Method](#). Students must receive a passing grade in this course to advance in the program.

b) [LAW705 Grad Seminar Legal Theory](#).

c) At least two additional 600-level courses (6 units) approved by the Graduate Program Director. For students in the specialization in Natural Resources, Energy and Environmental Law, the courses should be in the areas of natural resources, energy or environmental law or in a related area or from a related discipline with the approval of the Graduate Program Director.

d) A substantial research thesis, approximately 100 to 125 pages (30,000-38,000 words) in length, exclusive of the bibliography, prepared under the supervision of a faculty member or other suitable person appointed by the Graduate Program Director. For students in the specialization in Natural resources, Energy and Environmental Law, the thesis must be on a topic in that subject area.

e) Two terms in residence, normally consecutive and normally from September to April. Students usually require at least 15 to 18 months from initial registration for thesis completion and defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. On a case-by-case basis, advanced credit toward an LLM or PhD program may be given for courses completed in a graduate program within the Faculty of Law or another recognized institution. Courses for which advanced credit is being sought must not have been used for any previously completed degree/diploma/certificate credential.

### Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Certain JD courses are eligible for credit toward the LLM program.

## Time Limit

All requirements for the thesis-based LLM degree must be completed within three calendar years of initial registration.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Contact the Faculty of Law Graduate Program Director for information.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

Thesis examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee (where applicable), must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students, although funding for course-based LLM students will very rarely be provided. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar or the Faculty of Law Calendar or [website](#).

Students applying for scholarships must submit their scholarship applications to the Faculty of Law by the deadlines for completed admission applications.

## Overview

### General Program Information

Location: Murray Fraser Hall

Program number: 403.210.8718

Fax: 403.210.9662

Email address: <mailto:law@ucalgary.ca>

Web page URL: <https://law.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/law-phd>.

In addition to the [admission](#) requirements of the Faculty of Graduate Studies, the Faculty of Law requires:

- a) Completion of an undergraduate degree in Law (e.g. JD or LLB), normally with a minimum grade point average of 3.30 on a 4.0-point scale.
- b) Completion of a Master's degree in Law or other appropriate and relevant Master's, with a minimum grade point average of 3.00. The typical successful applicant will have a GPA of at least 3.7 on a 4.0-point scale.
- c) For applicants required to provide proof of proficiency in English, a minimum TOEFL Internet-based score of 97, with a minimum of 25 on the reading and writing components; or a minimum IELTS overall band score of 7.0, with a reading and writing band minimum of 7.0; or a PTE score of 68; or a CAEL overall score of 70, with a minimum score of 70 on writing and reading sections. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in the Academic Writing and Composition course, a minimum grade of "A-" in the Research Writing and Form course, and a minimum grade of "B+" in other courses.
- d) Two reference letters, ordinarily academic. At least one reference letter should be written by someone who has worked with the applicant at the Master's level and who is well familiar with the student's past work and research proposal.
- e) An indication of possible supervisors.
- f) A writing sample.
- g) A 10-page statement describing the applicant's research interests and proposing a dissertation project.
- h) An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Law requires students to complete:

a) [LAW703 Grad Sem Legal Res & Method](#).

b) [LAW705 Grad Seminar Legal Theory](#).

c) [LAW709 Special Topics in Law](#).

d) Additional coursework as may be required by the supervisor in consultation with the Graduate Program Director. Students may be required to carry out advanced coursework in the area of their thesis, or in a cognate area of law, or in a discipline other than law which is relevant to their thesis topic.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. On a case-by-case basis, advanced credit toward an LLM or PhD program may be given for courses completed in a graduate program within the Faculty of Law or another recognized institution. Courses for which advanced credit is being sought must not have been used for any previously completed degree/diploma/certificate credential.

### Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will be given for additional coursework required by the supervisor in consultation with the Graduate Program Director. Such coursework may include upper-level undergraduate courses as appropriate.

## Time Limit

Students are expected to complete all requirements for the PhD in four years. Maximum time to completion is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

Prospective students are required to identify possible supervisors as part of the application process. Supervisors will be determined on the basis of consultations among the student, the potential supervisor(s) and the Graduate Program Director. An interim supervisor will be assigned during the admissions process, and the supervisor and supervisory committee will be established within twelve months of the student entering the program.

## Required Examinations

In addition to the Faculty of Graduate Studies regulations for [candidacy](#) and [thesis examinations](#), the program requires:

### Candidacy

Advancing to candidacy requires the successful completion of a) all coursework; b) an original thesis proposal; and c) a field of study examination with written and oral components.

### Thesis Examination

Thesis examinations are open.

#### *Scheduling of the Examination*

Before an examination can be scheduled, all members of the supervisory committee must have reviewed the student's research, including a relevant written sample of the material related to the thesis, or the draft thesis document, and have provided written consent that the examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance will be available to qualified students in accordance with the Faculty of Law Graduate Student Funding Policy. See the [Awards and Financial Assistance](#) section of this calendar, the [Graduate Awards Database](#), and the Faculty of Law [website](#).

## Overview

## General Program Information

### Contact Information

**Location:** Murray Fraser Hall Room 2380

**Student Information:** 403.220.4155

**Faculty number:** 403.220.7115

**Email address:** [lawFTLP@ucalgary.ca](mailto:lawFTLP@ucalgary.ca)

**Web page:** [law.ucalgary.ca/future-students/post-jdlb-certificate-programs/foreign-trained-lawyers-program](http://law.ucalgary.ca/future-students/post-jdlb-certificate-programs/foreign-trained-lawyers-program)

The Foreign Trained Lawyers Program (FTLP) is a 12-month Post-bachelor's Certificate offered by the Faculty of Law at the University of Calgary for internationally trained lawyers who wish to become accredited to practice common law in Canada.

### Admissions

#### Program Admissions Information

The FTLP is designed to meet the unique needs of internationally-trained lawyers who wish to practice common law in Canada. Those internationally-trained lawyers fall into two broad categories:

Newcomers to Canada, including international students, who have obtained their legal education in common law, civil law, or both, and may have practiced law in their home jurisdictions, and either have obtained their Canadian Permanent Residence or Citizenship status, or will have the requisite immigration status to work in Canada when they do their articles after program completion.

Canadian citizens and Permanent Residents who have obtained their legal education in common law, civil law, or both, outside Canada and have returned or are intending to return to Canada to practice common law.

For more information, refer to: [law.ucalgary.ca/future-students/post-jdlb-certificate-programs/foreign-trained-lawyers-program#ftlp-application](http://law.ucalgary.ca/future-students/post-jdlb-certificate-programs/foreign-trained-lawyers-program#ftlp-application).

### Program Details

#### Simple Requisites

##### Foreign Trained Lawyers Program Post-Bachelor's Certificate Requirements for Graduation

###### Type

Completion Requirement

##### Foreign Trained Lawyers Program Post-Bachelor's Certificate Requirements for Graduation

Students must complete the following 24 units of course work achieving a satisfactory performance (a "C-", or higher, or "CR"):

**Earn at least 24 credits from the following:**

No selection provided

On approval by the Associate Dean (Academic), students may take one Law course in addition to the FTLP requirements and pay no additional tuition.

If the National Committee on Accreditation's assessment requires additional courses on top of the 24 units required in the FTLP plus the one optional course, students in the FTLP may take up to a maximum of 3 additional LWFT courses upon payment of the applicable per-LWFT course tuition fee (see the program's fees chart in the Undergraduate Tuition and General Fees). Any additional LWFT courses must be approved by the Associate Dean (Academic).

Additional LWFT courses can be found here:

#### Additional Comments:

## Time Limit

Students are expected to complete the FTLP post-bachelor's certificate in 12 months. The maximum time allowed to complete the FTLP requirements and any additional courses is 3 years.

## Faculty of Law Regulations

### Type

Completion Requirement

### Additional Comments:

## Faculty Regulations

Students in the Faculty of Law are governed by the Faculty Regulations and also by the Academic Regulations section of this Calendar. The Faculty Regulations can be found here: [law.ucalgary.ca/sites/default/files/teams/2/faculty-regulations-june-2015.pdf](http://law.ucalgary.ca/sites/default/files/teams/2/faculty-regulations-june-2015.pdf).

## Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the Flexible Grade Option (CG Grade) on any course.

## Overview

### General Program Information

The course-based Graduate Certificate program is available for full-time or part-time enrolment.

Location: Murray Fraser Hall

Program number: 403.210.8718

Fax: 403.210.9662

Email address: <mailto:law@ucalgary.ca>

Web page URL: <https://law.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications are available on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs/natural-resources-energy-environmental-law-certificate-course-based>.

In addition to the **admission** requirements of the Faculty of Graduate Studies, the Faculty of Law requires:

- a) Ordinarily, a JD, LLB or equivalent degree in Law.
- b) For applicants required to provide proof of proficiency in English, a minimum TOEFL Internet-based score of 97, with a minimum of 25 on the reading and writing components; or the minimum IELTS overall band score of 7.0, with a reading and writing band minimum of 7.0; or a CAEL score of 70, with a minimum of 70 on reading and writing components; or a PTE score of 68. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in the Academic Writing and Composition course, a minimum grade of "A-" in the Research Writing and Form course, and a minimum grade of "B+" in other courses.
- c) Two reference letters.
- d) An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Law requires:

The completion of four courses (12 units) in the area of natural resources, energy or environmental law or a related area, including at least one with a research paper evaluation worth at least 50 per cent of the course grade and including at least two at the 600 level. All courses require the approval of the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Courses for which advanced credit is being sought must not have been used for any previously completed degree/diploma/certificate credential.

### Flexible Grade Option (CG Grade)

The Faculty of Law will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

All requirements for the Graduate Certificate program must be completed within three calendar years of initial registration.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students, although funding for course-based LLM and Graduate Certificate students will very rarely be provided. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar or the Faculty of Law Calendar or [website](#).

Students applying for scholarships must submit their scholarship applications to the Faculty of Law by the deadlines for completed admission applications.

## Overview

### General Program Information

The MSc degree in Sustainable Energy Development (SEDV) is an interdisciplinary offering by the School of Public Policy in collaboration with the Haskayne School of Business, Schulich School of Engineering, School of Architecture, Planning, and Landscape, and the Faculty of Law. This interdisciplinary, comprehensive, and professional graduate program provides a holistic approach to energy and environmental management through a cross section of courses taught by faculty from across the university.

# UCalgary

This is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: Downtown Campus

Program number: 403.220.2013

Email address: <mailto:sedv@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/sustainableenergy>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/sustainable-energy-development-master-science-course-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the SEDV Program requires:

- Letter of intent of no more than 1000 words, addressing four questions provided on the SEDV admissions [website](#). Each question must be answered in no more than 250 words.
- A current curriculum vitae.
- Two years of professional work experience after graduation.
- Two reference letters: one academic and one professional.

Please refer to our [website](#) for detailed instructions and templates.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), SEDV requires successful completion of 42 units consisting of the following:

33 units of core courses:

##### Complete ALL of the following Courses:

- SEDV601 - Energy Systems I  
**AND** SEDV603 - Energy Systems II  
**AND** SEDV605 - Indigenous Peoples and Sustainability in Energy Development  
**AND** SEDV613 - Energy Economics and Finance  
**AND** SEDV615 - Environmental Impact Assessment in the Energy Sector  
**AND** SEDV619 - Environmental Law in the Energy Sector  
**AND** SEDV621 - Environmental Management Tools in the Energy Sector  
**AND** SEDV623 - Strategic Environmental Planning for Energy Organizations  
**AND** SEDV631 - Life Cycle Sustainability Assessment in the Energy Sector  
**AND** SEDV633 - Energy and Climate Policy  
**AND** SEDV635 - Fundamentals of Water, Air, and Land Pollution

6 units chosen from:

**Complete ANY of the following Courses:**

- SEDV698 - Topics in Energy and the Environment I  
**AND** SEDV699 - Topics in Energy and the Environment II

3 unit capstone project:

**Complete ALL of the following Courses:**

- SEDV640 - Capstone Project I: Research Design  
**AND** SEDV641 - Capstone Project II: Proposal Development  
**AND** SEDV642 - Capstone Project III: Research Exploration and Examination

The work completed in this set of courses is considered equivalent to a Major Research Project. These courses must be taken immediately after each other. The project work must be interdisciplinary, reflecting a minimum of 3 areas of study, with energy and environment as the two anchors.

**Additional Comments:**

Students will have the opportunity to participate in professional development seminars, experiential learning workshops, and field trips to local energy related sites. Attendance and participation in such activities is expected.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The SEDV Program does not grant advanced credit for courses completed prior to admission.

**Flexible Grade Option (CG Grade)**

The Master of Science in Sustainable Energy Development program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

**Credit for Undergraduate Courses**

The SEDV program does not grant advanced credit for undergraduate courses.

**Time Limit**

The SEDV program commences annually in May, which is the only intake. As a cohort-based program, the expectation is for students to complete courses as timetabled for their cohort.

The expected completion time is 16 months for full-time studies; however, the maximum permitted time is 6 years.

**Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

For information on graduate funding, please see Financing - SEDV | Haskayne School of Business | University of Calgary.

# Faculty of Nursing Department

Summary of Degree Programs

Faculty Information

Faculty Regulations

Program Details

Administration

Courses of Instruction by the Faculty of Nursing

## Programs

### Overview

#### General Program Information

The Advanced Nursing Practice Graduate Certificates are continuous programs with no scheduled breaks. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Also see: [GCERT Adva.](#)

#### Specializations:

- Addiction and Mental Health
- Contemporary Topics in Aging
- Innovations in Teaching and Learning
- Leadership for Health System Transformation
- Healthcare Innovation and Design
- Palliative and End of Life Care
- Oncology Nursing
- Rural and Remote Nursing

Students must choose a different specialization in each of the two certificates.

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#### Laddered Certificate Pathway to the Master of Nursing

Students who successfully complete one specialization of the Certificate in Advanced Nursing Practice I and a different specialization of the Certificate in Advanced Nursing Practice II will be eligible to apply for admission into the Master of Nursing (course-based) degree and will receive credit for the 24 units of coursework completed. Applications must be received within two years of completion of the Certificate in Advanced Nursing Practice II.

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Programs are delivered online.

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Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

#### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-certificate-course-based>.

## UCalgary

The deadline to request a change in specialization is normally one week prior to students starting the Graduate Certificate in Advanced Nursing Practice I or Graduate Certificate in Advanced Nursing Practice II.

In addition to the Faculty of Graduate Studies' [admission requirements](#), all applicants must meet the following requirements:

a) A four-year Nursing or Psychiatric Nursing baccalaureate degree preferred.

Other bachelor's degrees from recognized institutions will be considered on an individual basis.

Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.

b) Evidence of active nursing registration in Alberta through the College and Association of Registered Nurses of Alberta (CARNA) or active nursing registration in their province or territory of employment. Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent.

c) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of post-secondary study consisting of a minimum of 60 units.

d) In order of priority, preference will be given to applicants who:

Hold an active nursing registration in the Province of Alberta;

Hold an active nursing registration in a Canadian province or territory of employment;

International students\*.

e) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.

**\*Note:** International students are eligible to apply for admission provided they meet the admission requirements and their local professional licensure requirements. However, they will not be eligible for a study permit as the program is delivered online and considered part-time.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires, at minimum, successful completion of the following:

Each of the Graduate Certificates in Advanced Nursing Practice consist of 12 units of coursework. Course requirements are determined by the specialization.

#### Complete ANY of the following Course Sets:

- NURS GC Addiction Mental Health
  - OR NURS GC Contemporary Topics in Aging
  - OR NURS Innovations in Teaching and Learning
  - OR NURS GC Leadership for Health System Transformation
  - OR NURS GC Healthcare Innovation and Design
  - OR NURS GC Palliative and End of Life Care
  - OR NURS GC Oncology Nursing
  - OR NURS GC Rural and Remote Nursing

Students must choose different specializations in each of the two certificates (i.e., a student cannot repeat the specialization that they completed in the first certificate when they enrol in the second certificate). Students can complete a maximum of two certificates.

**Additional Comments:**

Each student is expected to complete the online Academic Scholarly Writing and Academic Integrity modules within the first two weeks of the program.

All courses in this program require students to attend instructor-led Connect Days, which are delivered online at scheduled dates and times (as listed in course outline). Students who do not attend Connect Days will normally be withdrawn from the associated course.

**Additional Program Information****Type**

Completion Requirement

**Additional Comments:****Advanced Credit**

Not given.

**Flexible Grade Option (CG Grade)**

The Faculty of Nursing will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

**Time Limits**

The expected completion time for each graduate certificate is 12 months. The maximum completion time for each graduate certificate is 2 years.

**Supervisory Assignments**

No supervisor will be assigned for the Graduate Certificates in Advanced Nursing Practice I and II.

**Financial Assistance****Type**

Completion Requirement

**Additional Comments:**

No financial assistance is available for this program.

## Overview

**General Program Information**

The Advanced Nursing Practice Graduate Certificates are continuous programs with no scheduled breaks. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Also see: [GCERT Adva.](#)

**Specializations:**

- Addiction and Mental Health

## UCalgary

- Contemporary Topics in Aging
- Innovations in Teaching and Learning
- Leadership for Health System Transformation
- Healthcare Innovation and Design
- Palliative and End of Life Care
- Oncology Nursing
- Rural and Remote Nursing

Students must choose a different specialization in each of the two certificates.

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### Laddered Certificate Pathway to the Master of Nursing

Students who successfully complete one specialization of the Certificate in Advanced Nursing Practice I and a different specialization of the Certificate in Advanced Nursing Practice II will be eligible to apply for admission into the Master of Nursing (course-based) degree and will receive credit for the 24 units of coursework completed. Applications must be received within two years of completion of the Certificate in Advanced Nursing Practice II.

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Programs are delivered online.

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Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-certificate-course-based>.

The deadline to request a change in specialization is normally one week prior to students starting the Graduate Certificate in Advanced Nursing Practice I or Graduate Certificate in Advanced Nursing Practice II.

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In addition to the Faculty of Graduate Studies' [admission requirements](#), all applicants must meet the following requirements:

- a) Completion of the [GCERT Adva](#) with a minimum GPA of 3.00.
- b) In order of priority, preference will be given to applicants who:
  - Hold an active nursing registration in the Province of Alberta;
  - Hold an active nursing registration in a Canadian province or territory of employment;

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**\*Note:** International students are eligible to apply for admission provided they meet the admission requirements and their local professional licensure requirements. However, they will not be eligible for a study permit as the program is delivered online and considered part-time.

## Program Details

### Simple Requisites

Program/Course Requirements
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## Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires, at minimum, successful completion of the following:

Each of the Graduate Certificates in Advanced Nursing Practice consist of 12 units of coursework. Course requirements are determined by the specialization.

**Complete ANY of the following Course Sets:**

- NURS GC Addiction Mental Health
  - OR** NURS GC Contemporary Topics in Aging
  - OR** NURS Innovations in Teaching and Learning
  - OR** NURS GC Leadership for Health System Transformation
  - OR** NURS GC Healthcare Innovation and Design
  - OR** NURS GC Palliative and End of Life Care
  - OR** NURS GC Oncology Nursing
  - OR** NURS GC Rural and Remote Nursing

Students must choose different specializations in each of the two certificates (i.e., a student cannot repeat the specialization that they completed in the first certificate when they enrol in the second certificate). Students can complete a maximum of two certificates.

## Additional Comments:

Each student is expected to complete the online Academic Scholarly Writing and Academic Integrity modules within the first two weeks of the program.

All courses in this program require students to attend instructor-led Connect Days, which are delivered online at scheduled dates and times (as listed in course outline). Students who do not attend Connect Days will normally be withdrawn from the associated course.

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

## Advanced Credit

Not given.

## Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

## Time Limits

The expected completion time for each graduate certificate is 12 months. The maximum completion time for each graduate certificate is 2 years.

## Supervisory Assignments

No supervisor will be assigned for the Graduate Certificates in Advanced Nursing Practice I and II.

## Financial Assistance

## Type

Completion Requirement

## Additional Comments:

No financial assistance is available for this program.

## Overview

### General Program Information

## Introduction

The University of Calgary offers an innovative Bachelor of Nursing degree to prepare students for the opportunities and challenges of a nursing career in a changing health-care system. Throughout the program, students are provided with a sound theoretical base and supervised practice experience in a variety of nursing settings. Three BN routes are available: a four-year route for high school students, a two and one-half year route for transfer students and a two-year route for degree holders.

Note: Students enrolled at the Calgary Campus, who wish to transfer to the UC-Qatar Campus **Bach of Nu**, Medicine Hat College **Bach of Nu** or other off-site locations, must apply for admission at the desired site. Admission will be based on the student's grade point average and the availability of seats.

## Other Bachelor of Nursing programs:

### Bachelor of Nursing Program at Medicine Hat College Site

The **Bach of Nu** is a partnership program offered entirely at the Medicine Hat College site, allowing students in the Medicine Hat area increased access to a baccalaureate program without having to relocate.

Note: Students enrolled at the Medicine Hat College Site, who wish to transfer to the Calgary Campus, must apply to the University of Calgary Bachelor of Nursing Direct Entry Route. Only applicants with extenuating circumstances will be considered. Requests will be reviewed by the Associate Dean Undergraduate Programs (or designate) on a competitive basis considering the student's cumulative grade point average and space available at the level/year that the student wishes to transfer into. Additional supporting documentation is required as outlined in Nursing Faculty Regulations **3.1 Attendance in a Prior Nursing Program**.

### Bachelor of Nursing Program at University of Calgary Qatar Campus

For more information see: [ucalgary.ca/faculties/nursingqatar](http://ucalgary.ca/faculties/nursingqatar). For program requirements see: **Bach of Nu**.

**Note: Applications to this program are currently suspended. No new admissions will be permitted.**

Students enrolled at the Qatar Campus, who wish to transfer to the Calgary Campus, must apply to the University of Calgary Bachelor of Nursing Degree Program. Admission will be based on case-by-case appraisal of student circumstance as well as the student's grade point average and the availability of seats. Due to the differences in courses and curriculum, transferability may be limited.

### Bachelor of Nursing Program - Rural Community

The Bachelor of Nursing Program Rural Community is a partnership program offered entirely remotely, allowing students residing in designated rural communities in Alberta increased access to a baccalaureate program without having to relocate.

Note: Students enrolled in the Bachelor of Nursing program in a rural community partnership who wish to transfer to the Calgary Campus, must apply through a change of program to the University of Calgary. Only applicants with extenuating circumstances will be considered. Bachelor of Nursing requests will be reviewed by the Associate Dean Undergraduate Programs (or designate) on a competitive basis considering the student's cumulative grade point average and space available at the level/year that the student wishes to transfer into. Additional supporting documentation is required as outlined in Nursing Faculty Regulations **3.1 Attendance in a Prior Nursing Program**.

### Bachelor of Nursing Program - Indigenous Community Entry Route for the Siksika Nation Pilot

The Bachelor of Nursing Program Indigenous Community Entry Route for the Siksika Nation is offered as a pilot program with

Siksika Nation and Old Sun College. Indigenous students can complete upgrading of the admission requirements at Old Sun College prior to entering year one of the Bachelor of Nursing Program. The program is offered in the community of Siksika Nation and surrounding areas using both online and in-person components, allowing students residing within 120 kms of Siksika Nation increased access to a baccalaureate program without having to relocate.

Note: Students enrolled in the Bachelor of Nursing Program Indigenous Community who wish to transfer to the Calgary Campus must apply through a change of program to the University of Calgary Bachelor of Nursing. Only applicants with extenuating circumstances will be considered. Requests will be reviewed by the Associate Dean Undergraduate Programs (or designate) on a competitive basis considering the student's cumulative grade point average and space available at the level/year that the student wishes to transfer into. Additional supporting documentation is required as outlined in Nursing Faculty Regulations [3.1 Attendance in a Prior Nursing Program](#).

## Post-Diploma Bachelor of Nursing for Registered Nurses (Qatar Campus Only)

For more information see: [ucalgary.ca/faculties/nursingqatar](https://ucalgary.ca/faculties/nursingqatar). For program requirements see: [Bach of NU](#).

## Admissions

### Program Admissions Information

For Faculty of Nursing admission information see [3.1 Admissions](#).

## Program Details

### Simple Requisites

#### Bachelor Of Nursing Program Routes

##### Type

Completion Requirement

##### Additional Comments:

Students are required to register according to the following schedule. Terms 1 and 2 (see Nursing Program of Study below) are for students admitted to the Direct Entry Route (from High School). Students admitted to the Transfer and Degree-Holder Routes are exempt from completing these Terms; therefore, they commence the program in Term 3.

*It is important to note that students will not be permitted to switch routes mid-program.*

#### Nursing Program Routes

	Direct Entry Students	Transfer Students - September Entry	Transfer Students - January Entry	Degree-Holders - January Entry
Fall	Term 1	Term 3		
Winter	Term 2	Term 4	Term 3	Term 3
Spring			Term 4	Term 4
Fall	Term 3	Term 5	Term 5	Term 5
Winter	Term 4	Term 6	Term 6	Term 6
Spring		Term 7		Term 7
Fall	Term 5	Term 8	Term 7	Term 8
Winter	Term 6		Term 8	
Spring				
Fall	Term 7			
Winter	Term 8			

Students in all three routes of the BN Program are required to complete the following program of study.

#### Bachelor of Nursing Program of Study

**Type**

Completion Requirement

**Terms 1 and 2**

Students admitted to the four-year program route must successfully complete all ten Term 1 and Term 2 courses as outlined under "Course Requirements" prior to commencement of Year 2 (Term 3), unless approved by the Associate Dean Undergraduate Programs (or delegate).

Terms 1 and 2 consist of the following required courses:

**Earn at least 30 credits from the following:**

- Kinesiology 259 and Kinesiology 260
- Academic Writing 303
- Junior Arts Option (Suggestions: Psychology 200, 203 or Sociology 201)
- Junior Statistics Option (Statistics 205 recommended)
- Philosophy Option (Philosophy 249, 259, 313 or 347 recommended)
- Junior Open Option (Science option recommended)
- Junior Open Option
- Junior Open Option
- Open Option

**Terms 3 and 4**

**Earn at least 30 credits from the following:**

- Bachelor of Nursing - Term 3
- Bachelor of Nursing - Term 4

**Terms 5 and 6**

**Earn at least 30 credits from the following:**

- Bachelor of Nursing - Term 5
- Bachelor of Nursing - Term 6

**Term 7**

**Earn at least 15 credits from the following:**

- Nursing 585 & Nursing 589
- The Science of Health - Senior Nursing Option
- Supporting Health - Senior Nursing Option

**Term 8**

**Earn at least 15 credits from the following:**

- NURS599 - Integrating Nursing Roles and Practices VI: Transition to Nursing Practice

**Additional Comments:**

**Additional Program Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Academic Progression Requirements**

Promotion from year to year is by recommendation of the Faculty of Nursing. For the purposes of promotion, Terms 1 and 2 are taken in Year 1; Terms 3 and 4 in Year 2; Terms 5 and 6 in Year 3, and Terms 7 and 8 in Year 4.

The minimum requirement is a grade point average of 2.00 in each of the first two years and 2.50 in each of the last two years. Refer to **3.4 Student Standing: Students Previously in Satisfactory Standing**.

## Duration of Degree Program

Except with special permission of the Associate Dean Undergraduate Programs (or delegate), the BN degree must be completed within seven calendar years from the date of initial registration in the program.

## Nurse Registration Examinations

In order to be considered eligible to write the National Council Licensure Examination (NCLEX), BN students are required to complete the fourth year program requirements with a minimum 2.50 grade point average.

## Faculty of Nursing Regulations

For other regulations related to the Faculty of Nursing, see: **3. Faculty of Nursing Regulations**.

## Overview

### General Program Information

Master of Nursing/Master of Business Administration (MN/MBA) is a combined program offered with the Haskayne School of Business.

**\*Program is suspended and is not currently accepting applications.**

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website.

For MN deadlines, see <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-master-nursing-course-based>.

A separate application to the MBA program is required. For MBA deadlines, see <https://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Applicants to the combined MN/MBA program must be admitted to the MN program, and make a separate application for admission to the MBA program. Students must meet the requirements of the MN and MBA programs. The respective Combined Program Committee will review each application. Normally, only a full-time student in the Master of Nursing program may take a combined program. Please consult with the Faculty of Nursing Graduate Programs Office for more information.

For MBA admission requirements, see **Master of**.

### MN Admission Requirements

In addition to the Faculty of Graduate Studies **admission** requirements, the Faculty of Nursing requires that an applicant must:

- Be a Registered Nurse or a Registered Psychiatric Nurse holding a baccalaureate degree, normally in nursing.
- Registered Nurses must be eligible for active nursing registration in Alberta (registrants in the program must provide proof of active CARN registration or equivalent each year); Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent each year.
- Have completed one undergraduate course (3 units) in statistics with a grade of "C" or better.
- Submit two references, one from someone capable of assessing the applicant's academic and research ability, normally an academic, and one from someone who can attest to the applicant's nursing practice and expertise.
- For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test);

## UCalgary

IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in writing courses.

f) Have an interview(s) with a faculty member, if requested by the Faculty.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies' **requirements**, the Faculty of Nursing and Haskayne School of Business require the following:

Students admitted to the MN/MBA will focus on courses for the MN during the first year and on MBA courses in years two and three. Typically, the remaining courses required will be completed in year three. A total of 66.75 units is required.

Course requirements include:

a) MBA courses (51 units):

**Complete ALL of the following Courses:**

- ACCT601 - Introductory Financial Accounting  
**AND** ACCT603 - Management Accounting  
**AND** SGMA603 - Global Environment of Business  
**AND** BTMA601 - Business Technology Management  
**AND** ENTI601 - Entrepreneurial Thinking  
**AND** FNCE601 - Managerial Finance  
**AND** MGST611 - Managerial Economics  
**AND** MGST613 - Managerial Decision Modeling  
**AND** MGST615 - Strategic Business Analysis  
**AND** MKTG601 - Marketing Management  
**AND** OPMA601 - Operations Management  
**AND** OBHR601 - Organizational Behaviour  
**AND** OBHR621 - Advanced Leadership  
**AND** SGMA601 - Strategic Management I
- plus three elective courses (3 units each) in the student's area of interest.

b) MN courses (15 units):

**Complete ALL of the following Courses:**

- NURS611 - Theoretical Knowledge for Advanced Nursing Practice  
**AND** NURS630 - Quantitative Research and Statistics  
**AND** NURS632 - Writing Proposals for the Nursing Profession  
**AND** NURS660 - Cultivating Personal Leadership I  
**AND** NURS683 - Qualitative Designs And Analyses

#### Additional Comments:

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the program.

#### Additional Program Information

## Type

Completion Requirement

## Additional Comments:

### Credit for Undergraduate Courses

Under special circumstances, with the consent of the Faculty, students may take undergraduate courses, normally at the senior or 500-level, for the Master of Nursing degree.

### Supervisory Assignments

No supervisor will be assigned.

### Time Limit

Expected completion time for the Master of Nursing portion is one year. Maximum completion time is two years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing Website prior to each competition deadline. The application deadline for internal scholarships is February 1. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

### Introduction

The Bachelor of Nursing program at Medicine Hat College is a four year partnership program offered entirely at the Medicine Hat College site, allowing students in the Medicine Hat area increased access to a baccalaureate program without having to relocate. This innovative Bachelor of Nursing degree program prepares students for the opportunities and challenges of a nursing career in a changing health-care system. Throughout the program, students are provided with a sound theoretical base and supervised practice experience in a variety of nursing settings.

Note: Students enrolled at the Medicine Hat College Site, who wish to transfer to the Calgary Campus, must apply to the University of Calgary Bachelor of Nursing Direct Entry Route. Only applicants with extenuating circumstances will be considered. Requests will be reviewed by the Associate Dean Undergraduate Programs (or designate) on a competitive basis considering the student's cumulative grade point average and space available at the level/year that the student wishes to transfer into. Additional supporting documentation is required as outlined in Nursing Faculty Regulations [3.1 Attendance in a Prior Nursing Program](#).

## Other Bachelor of Nursing programs:

### Bachelor of Nursing Program University of Calgary Campus

The University of Calgary offers an innovative Bachelor of Nursing degree to prepare students for the opportunities and challenges of a nursing career in a changing health-care system. Throughout the program, students are provided with a sound theoretical base and supervised practice experience in a variety of nursing settings. Three BN routes are available: a four-year route for high school students, a two and one-half year route for transfer students and a two-year route for degree holders.

For program requirements see: [Bach of Nu](#)

### Bachelor of Nursing Program at University of Calgary Qatar Campus

For more information see: [ucalgary.ca/faculties/nursingqatar](https://ucalgary.ca/faculties/nursingqatar). For program requirements see: [Bach of Nu](#).

**Note: Applications to this program are currently suspended. No new admissions will be permitted.**

Students enrolled at the Qatar Campus, who wish to transfer to the Calgary Campus, must apply to the University of Calgary Bachelor of Nursing Degree Program. Admission will be based on case-by-case appraisal of student circumstance as well as the student's grade point average and the availability of seats. Due to the differences in courses and curriculum, transferability may be limited.

## Bachelor of Nursing Program - Rural Community

The Bachelor of Nursing Program Rural Community is a partnership program offered entirely remotely, allowing students residing in designated rural communities in Alberta increased access to a baccalaureate program without having to relocate.

Note: Students enrolled in the Bachelor of Nursing program in a rural community partnership who wish to transfer to the Calgary Campus, must apply through a change of program to the University of Calgary. Only applicants with extenuating circumstances will be considered. Bachelor of Nursing requests will be reviewed by the Associate Dean Undergraduate Programs (or designate) on a competitive basis considering the student's cumulative grade point average and space available at the level/year that the student wishes to transfer into. Additional supporting documentation is required as outlined in Nursing Faculty Regulations [3.1 Attendance in a Prior Nursing Program](#).

## Bachelor of Nursing Program - Indigenous Community Entry Route for the Siksika Nation Pilot

The Bachelor of Nursing Program Indigenous Community Entry Route for the Siksika Nation is offered as a pilot program with Siksika Nation and Old Sun College. Indigenous students can complete upgrading of the admission requirements at Old Sun College prior to entering year one of the Bachelor of Nursing Program. The program is offered in the community of Siksika Nation and surrounding areas using both online and in-person components, allowing students residing within 120 kms of Siksika Nation increased access to a baccalaureate program without having to relocate.

Note: Students enrolled in the Bachelor of Nursing Program Indigenous Community who wish to transfer to the Calgary Campus must apply through a change of program to the University of Calgary Bachelor of Nursing. Only applicants with extenuating circumstances will be considered. Requests will be reviewed by the Associate Dean Undergraduate Programs (or designate) on a competitive basis considering the student's cumulative grade point average and space available at the level/year that the student wishes to transfer into. Additional supporting documentation is required as outlined in Nursing Faculty Regulations [3.1 Attendance in a Prior Nursing Program](#).

## Post-Diploma Bachelor of Nursing for Registered Nurses (Qatar Campus Only)

For more information see: [ucalgary.ca/faculties/nursingqatar](https://ucalgary.ca/faculties/nursingqatar). For program requirements see: [Bach of NU](#).

## Admissions

### Program Admissions Information

For Faculty of Nursing admission information see [3.1 Admissions](#).

Students will apply to enter the program in year one at Medicine Hat College. Upon successful completion of their first two years of the program, students apply to enter the University of Calgary as third year students. Admission is determined based on the student's successful progression through the Medicine Hat College program with a minimum GPA of 2.00. The remaining courses will be completed as University of Calgary students at Medicine Hat College.

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

Completion Requirement

\*First Year - Terms 1 and 2

\*First and Second Years of the program are Medicine Hat College courses

**Complete ALL of the following Courses:**

Biology 275

English 252

Statistics (Statistics 333 recommended)

Biology 277

Junior Arts Option (Suggestions: Psychology 205 or **Sociology 201**)

Philosophy Option (**Philosophy 313** recommended)

Junior Open Option (Cellular, Molecular and Microbial Biology 250 recommended)

Junior Open Option (Interdisciplinary Studies 100 recommended)

Junior Open Option

Junior Open Option

\*Second Year - Terms 3 and 4

\* First and Second Years of the program are Medicine Hat College courses

**Earn at least 30 credits from the following:**

- Bachelor of Nursing - Term 3
- Bachelor of Nursing - Term 4

Terms 5 and 6

**Earn at least 30 credits from the following:**

- Bachelor of Nursing - Term 5
- Bachelor of Nursing - Term 6

Term 7

**Earn at least 15 credits from the following:**

- Nursing 585 & Nursing 589
- Supporting Health - Senior Nursing Option
- The Science of Health - Senior Nursing Option

Term 8

**Earn at least 15 credits from the following:**

- NURS599 - Integrating Nursing Roles and Practices VI: Transition to Nursing Practice

**Additional Comments:**

#### Additional Program Regulations

Type

Completion Requirement

**Additional Comments:**

### Academic Progression Requirements

Promotion from third year to fourth year is by recommendation of the University of Calgary Faculty of Nursing. For purposes of promotion, the academic year is considered to be from September 1 of one year to August 31 of the next. Hence, Spring/Summer grades are calculated with the previous Fall/Winter Term grades. The minimum requirement is a grade point

average of 2.50 in each of the third and fourth years.

## Duration of Degree Program

Except with special permission of the Associate Dean Undergraduate Programs (or delegate), the BN degree must be completed within seven calendar years from the date of initial registration in the program.

## Nurse Registration Examinations

In order to be considered eligible to write the nurse registration examinations, BN students at the Medicine Hat College Site are required to complete the fourth year program requirements with a minimum 2.50 grade point average.

## Overview

### General Program Information

#### Contact Information

Location: Professional Faculties 2230

Faculty number: 403.220.6262

Student Information: Undergraduate and Graduate Programs Office PF 2260

#### Email addresses:

Main campus BScN programs - [nursing@ucalgary.ca](mailto:nursing@ucalgary.ca)

All off site BScN programs - [bnosinfo@ucalgary.ca](mailto:bnosinfo@ucalgary.ca)

Graduate Programs - [nursgrad@ucalgary.ca](mailto:nursgrad@ucalgary.ca)

Website: [nursing.ucalgary.ca](http://nursing.ucalgary.ca)

### Bachelor of Science in Nursing Program

The Faculty of Nursing offers a 120-unit Bachelor of Science Nursing degree, at the University of Calgary campus, Medicine Hat College site, selected Rural Communities and a pilot program on the Siksika Nation.

## Admissions

### Program Admissions Information

For Faculty of Nursing admission information see [3.1 Admissions](#).

## Program Details

### Simple Requisites

#### Nursing Program of Study

##### Type

##### Completion Requirement

##### Year 1 - Required Courses

The BScN program is highly structured and designed for students to complete the program in a compressed format. Students attend classes in fall, winter and spring terms.

##### Earn at least 18 credits from the following:

- Nursing 201, 202, 203, 204; Statistics 205; Academic Writing 303

##### Year 1 - Required Options

**Earn at least 15 credits from the following:**

- Junior Arts option
- Junior Science option
- Junior Philosophy
- 6 units Junior Open Options

Year 2 Term 3 - Required Courses

**Earn at least 15 credits from the following:**

- Nursing 305, 310, 320, 321, 350, 351

Year 2 Term 4 - Required Courses

**Earn at least 15 credits from the following:**

- Nursing 330, 331, 332, 352

Year 2 Term 5 - Required Courses

**Earn at least 12 credits from the following:**

- Nursing 401, 430, 450

Year 3 Term 6 and 7 - Required Courses

**Earn at least 30 credits from the following:**

- Nursing 410, 420, 421, 501, 520, 521, 530, 531, 550, 551, 552, 553

Year 3 Term 8 - Required Courses

**Earn at least 15 credits from the following:**

- Nursing 510, 560

Spring or Fall (half of the student cohort will complete term 8 in spring and half in the fall extending the program to 3.5 years)

**Additional Comments:**

#### **Additional Program Regulations**

##### **Type**

Completion Requirement

**Additional Comments:**

#### **Duration of Degree Program**

Except with special permission of the Associate Dean Undergraduate Programs (or delegate), the BScN degree must be completed within seven calendar years from the date of initial registration in the program.

#### **Nurse Registration Examinations**

In order to be considered eligible to write the National Council Licensure Examination (NCLEX) students must successfully complete the Nursing program and have their confirmation or program completion provided to CRNA or the relevant regulatory body.

## **Overview**

# UCalgary

## General Program Information

The Doctor of Nursing program is aimed at developing and preparing nurse leaders and innovators with significant leadership experience for senior roles in healthcare and related organizations.

The Doctor of Nursing program is delivered online allowing students to pursue this degree while continuing to work.

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Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/doctor-nursing>.

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In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires:

- a) Applicants to have at least three years of healthcare or related organization experience in a mid-level to senior leadership role.
- b) A Master's Degree in Nursing, Psychiatric Nursing or related fields, or an equivalent from a recognized institution. A grade point average equivalent to 3.00 or better (on the University of Calgary 4.0 system) is required. See [Qualifications](#) for additional information.
- c) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.
- d) A current resume/curriculum vitae with examples of the applicant's written scholarly work such as publications, research reports, course assignments, etc.
- e) Two reference letters, one academic and one professional.
- f) A two-page personal statement outlining objectives, intent and commitment to the DN program.
- g) An interview with the Graduate Admissions and Review Committee.
- h) A letter of commitment from the identified supervisor indicating willingness to provide supervision throughout the program of study.
- i) Applicants should have successfully completed graduate-level courses in quantitative and qualitative research methods and statistics.

See website for additional information.

## Program Details

### Simple Requisites

Program/Course Requirements
Type
Completion Requirement
In addition to the Faculty of Graduate Studies' <a href="#">requirements</a> , the Faculty of Nursing requires the following:

21 units of courses:

**Complete ALL of the following Courses:**

- NURS741 - Leading Innovation & Transformation  
**AND** NURS742 - Technology & Healthcare Information  
**AND** NURS743 - The Business of Healthcare  
**AND** NURS744 - Health Policy & Advocacy  
**AND** NURS745 - Innovation, Improvement & Implementation Science  
**AND** NURS746 - Seminar I Project Development  
**AND** NURS747 - Seminar II Knowledge Mobilization

**Additional Comments:**

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the program.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

Applicants must include requests for advanced credit, accompanied by a rationale, when they apply for admission. For courses taken outside the University of Calgary, applicants must provide official transcripts and a copy of the course outline detailing the course description, objectives, assignments, readings, etc.

**Flexible Grade Option (CG Grade)**

The Faculty of Nursing will not permit the Flexible Grade Option (CG Grade) for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

**Credit for Undergraduate Courses**

Credit will not be given for undergraduate-level courses.

**Time Limit**

The expected completion time is three years; maximum completion time is six years.

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

Doctor of Nursing students will be assigned a Faculty of Nursing member to commit to their supervision following admission to the program. In addition, a workplace or related mentor will be identified by the student and/or faculty supervisor/supervisory committee once the student has entered the DN program. This individual will normally hold a senior position within an organization relevant to the student's planned work-integrated research project. This individual, a knowledge expert, will be considered an Advisory Member of the student's supervisory committee, as outlined by the Faculty of Graduate Studies. The Advisory Member will attend committee meetings and examinations but will serve in a non-voting capacity.

## Candidacy

The Doctoral candidacy examination has a written and an oral component.

The student will produce a manuscript that may be submitted for publication. The manuscript will be focused on exploring and critically evaluating literature related to the student's research project. Students are expected to defend their work in an oral public presentation and a private oral examination with the supervisory committee.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students in line with the University's Equity, Diversity, and Inclusivity initiatives. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Master of Nursing (MN), course-based is offered online, via a Laddered Certificate Pathway

The course-based Master of Nursing is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-master-nursing-course-based>.

In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires that an applicant must:

- Be a Registered Nurse or Registered Psychiatric Nurse holding a baccalaureate degree, normally in nursing.
- Have completed [GCERT Adva](#) and [GCERT Adva](#) with a minimum GPA of 3.0.
- Registered Nurses must be eligible for active nursing registration in Alberta (registrants in the program must provide proof of active CARN registration or equivalent each year); Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent each year.
- Have completed one undergraduate course (3 units) in statistics with a grade of "C" or better.
- For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.

f) Have an interview(s) with a faculty member, if requested by the Faculty.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires, at minimum, successful completion of the following core courses:

##### Complete ALL of the following Courses:

- NURS630 - Quantitative Research and Statistics  
**AND** NURS632 - Writing Proposals for the Nursing Profession  
**AND** NURS635 - Implementation Science for Health Professionals  
**AND** NURS683 - Qualitative Designs And Analyses

Note: Nursing 690 should be taken instead of Nursing 635 if Nursing 660 is not completed in Advanced Nursing Practice I or II Graduate Certificates.

##### Additional Comments:

Each student is expected to complete the online seminars Academic Scholarly Writing and Academic Integrity within the first two weeks of the program (if not completed in Advanced Nursing Practice I or II Graduate Certificates).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must include requests for [Advanced Credit](#), accompanied by a rationale, when they apply for admission. For courses taken outside the University of Calgary, applicants must provide official transcripts and a copy of the course outline detailing the course description, objectives, assignments, readings, etc.

### Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

### Credit for Undergraduate Courses

Under special circumstances, with the consent of the Faculty, students may take undergraduate courses, normally at the senior or 500-level, for the Master of Nursing degree.

### Time Limit

Expected completion time for full-time students in the Master of Nursing course-based program is one year. Maximum completion time is two years.

## Supervisory Assignments

No supervisor will be assigned.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing [Website](#) prior to each competition deadline. The application deadline for internal scholarships is February 1. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

The Master of Nursing thesis-based program offers a focused supervised research experience.

Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-master-nursing-thesis-based>.

In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires that an applicant must:

- a) Be a Registered Nurse or a Registered Psychiatric Nurse holding a baccalaureate degree, normally in nursing;
- b) Registered Nurses must be eligible for active nursing registration in Alberta (registrants in the program must provide proof of active CARNA registration or equivalent each year); Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent each year;
- c) Have completed one undergraduate course (3 units) in statistics with a grade of "C" or better;
- d) Submit two references, one from someone capable of assessing the applicant's academic and research ability, normally an academic, and one from someone who can attest to the applicant's nursing practice and expertise;
- e) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.
- f) Have an interview(s) with a faculty member, if requested by the Faculty.

### Program Details

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires, at minimum, successful completion of the following core courses:

##### Complete ALL of the following Courses:

- NURS611 - Theoretical Knowledge for Advanced Nursing Practice  
**AND** NURS630 - Quantitative Research and Statistics  
**AND** NURS632 - Writing Proposals for the Nursing Profession  
**AND** NURS683 - Qualitative Designs And Analyses  
**AND** NURS690 - Cultivating Personal Leadership II

##### Additional Comments:

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Applicants must include requests for [advanced credit](#), accompanied by a rationale, when they apply for admission. For courses taken outside the University of Calgary, applicants must provide official transcripts and a copy of the course outline detailing the course description, objectives, assignments, readings, etc.

### Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

### Credit for Undergraduate Courses

Under special circumstances, with the consent of the Faculty, students may take undergraduate courses, normally at the senior or 500-level, for the Master of Nursing degree.

### Time Limit

Expected completion time is three years. Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

a) Students will be assigned a permanent supervisor throughout their program of study.

b) A supervisory committee must be struck for all MN thesis students no later than three months after the appointment of supervisor.

## Research Proposal Requirements

Students must receive formal approval of their research proposals from the supervisory committee before proceeding to ethical review and implementation of the project. The approved proposal will be housed in the Research Office, Faculty of Nursing.

Students whose research involves human subjects must receive ethics approval from the University of Calgary Conjoint Health Research Ethics Board.

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The final thesis examination is open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing Website prior to each competition deadline. The application deadline for internal scholarships is February 1. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

The Doctor of Philosophy program is designed to educate professionals for excellence in nursing scholarship through original research related to specialized practice with identified client populations.

Location: Professional Faculties Building, 2260D

Program number: 403.220.6241

Fax: 403.210.9637

Email address: <mailto:nursgrad@ucalgary.ca>

Web page URL: <http://nursing.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/nursing-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires that an applicant must:

- a) Normally be a Registered Nurse.
- b) Submit a study plan outlining the areas of proposed concentration, goals in undertaking doctoral work, initial intentions regarding course work, and a statement of the preliminary plans for thesis research.
- c) Provide examples of the applicant's written scholarly work such as publications, research reports, course assignments, etc.
- d) Provide a curriculum vitae.
- e) Provide a letter of commitment from the identified supervisor indicating willingness to provide supervision throughout the program of studies and supporting the applicant's study plan.
- f) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.
- g) Have successfully completed one graduate-level course (3 units) in quantitative methods, one graduate-level course (3 units) in qualitative methods, plus one graduate-level course (3 units) in statistics. Exceptions may be considered, but the onus will be on the applicant to provide sufficient evidence to warrant exception. Deficiencies must be successfully eliminated prior to or in the first year of the doctoral program.
- h) Submit three references, one of which must be from the applicant's supervisor of their master's program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing requires completion of 15 units of coursework:

##### Complete ALL of the following Courses:

- NURS721 - Advanced Quantitative Research Methods  
**AND** NURS744 - Health Policy & Advocacy  
**AND** NURS783 - Advanced Qualitative Research Methods  
**AND** NURS724 - Philosophy, Knowledge and Research in Nursing  
**AND** NURS726 - Developing a Scholarly e-Portfolio

Baccalaureate and non-nursing master's prepared applicants must complete additional coursework beyond the five core courses. Applicants are individually assessed. The number and types of additional courses required will vary according to the applicant's academic, research and practice background as well as the proposed research plan.

##### Additional Comments:

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

##### Advanced Credit

## Advanced Credit

Applicants must include requests for **advanced credit**, accompanied by a rationale, when they apply for admission. For courses taken outside the University of Calgary, applicants must provide official transcripts and a copy of the course outline detailing the course description, objectives, assignments, readings, etc.

## Flexible Grade Option (CG Grade)

The Faculty of Nursing will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Faculty.

Students may choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

## Time Limit

Expected completion time for doctoral students is four years; maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Doctoral students require a Faculty of Nursing member to commit to their supervision as a condition of admission.

## Research Proposal Requirements

Doctoral students must have their research proposals approved in principle by their supervisory committee prior to candidacy. Students must receive formal approval of their research proposals from the supervisory committee before proceeding to ethical review and implementation of the project. The approved proposal will be housed in the Research Office, Faculty of Nursing.

Students whose research involves human subjects must receive ethics approval from the University of Calgary Conjoint Health Research Ethics Board.

## Required Examinations

### Candidacy

After completion of the student's coursework and approval of the thesis research proposal, a candidacy examination with a written and an oral component is required.

For complete details of the examination format and other candidacy requirements visit: [nursing.ucalgary.ca/current-students/graduate/managing-my-program/examinations](https://nursing.ucalgary.ca/current-students/graduate/managing-my-program/examinations).

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for **Thesis Examinations**, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The final thesis examination is open.

## Financial Assistance

### Type

Completion Requirement

## Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing Website prior to each competition deadline. The application deadline for internal scholarships is February 1. Students admitted to the doctoral program are highly encouraged to seek external funding to support their studies and research. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

## Contact Information

Location:

Al-Forousiya Road (Opposite Horse Race Track)

PO Box 23133

Doha, Qatar

Phone: +974 4406 5222

Email address: [ucqadmit@ucalgary.ca](mailto:ucqadmit@ucalgary.ca)

Website: [ucalgary.edu.qa](http://ucalgary.edu.qa)

## Introduction

The University of Calgary in Qatar (UCQ) is a branch campus of the University of Calgary, established in 2006. UCQ exclusively offers programs that prepare nurses and offers BN and MN programs. UCQ's vision is to be the model for excellence in international nursing education, practice, and scholarship and its mission is to enrich the health and wellness in Qatar by educating and developing world-class nurses. The Canadian Association of Schools of Nursing accredits the undergraduate nursing programs at UCQ. UCQ nursing graduates receive the same degree credentials as students at the University of Calgary main campus. The BN programs support nursing graduates to achieve excellence in entry-level competences as defined by the College and Association of Registered Nurses of Alberta's (CARNA) (2019) and to demonstrate professional, legal, and ethical decision-making as outlined in the Canadian Nurses Association (2017) and the International Council of Nurses (2012) Codes of Ethics. Exemplars applied throughout the curricula are tailored and relevant to the Qatar context.

## Professional Conduct

The study of nursing places students in a position of special trust with persons/patients, families, with nurses, and with other health-care professionals. The Qatar Faculty of Nursing recognizes that nursing education occurs both inside and outside the classroom and has the responsibility to ensure that its graduates are competent and ethical. Students are expected to comply with all University of Calgary policies and regulations. Although nursing students in program are not regulated members of QCHP, as part of their formation as professional nurses, they are also expected to be familiar with and to meet professional and ethical competences and standards as outlined by:

CARNA (2019). Entry-to-practice competencies for the practice of registered nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

QHCP (2014). Nursing Regulations in the State of Qatar. <https://lc.ucalgary.edu.qa/c.php?g=825172&p=5896718>

Canadian Nurses Association (2017). Code of Ethics for Registered Nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

## Career Opportunities

To practice as a Registered Generalist Nurse in Qatar, one must be licensed through the Qatar Council for Health Professionals (QCHP). UCQ nursing students are prepared to write a national licensing exam as defined by QCHP. Upon graduation, UCQ nursing graduates are prepared to work as practitioners across diverse settings, and with persons, families, and communities experiencing varying degrees of wellness, health, and illness. UCQ nursing graduates have strong foundations skills for Interprofessional practice, leadership, and research.

## Student Affairs

### Advising Services

Student advisors are available in Student and Enrolment Services. Contact information, including office hours, can be found at: [ucalgary.edu.qa/current-students/student-services](http://ucalgary.edu.qa/current-students/student-services). Students are encouraged to become familiar with the office and its services.

### Nursing Student Society in Qatar (NSSQ)

The NSSQ is a society consisting of elected representatives from the Nursing student body. NSSQ serves students by providing faculty-student liaisons, information on current nursing issues, social functions, and a support network for nursing students.

## Resources

The Faculty houses a Clinical Simulation and Standardized Patient Centre and several laboratories. UCQ has partnered with several health services organizations through the country that provide opportunity for students to apply theory in practice settings. Health service organizations include Hamad Medical Corporation (HMC), Primary Health Care Cooperation (PHCC), Sidra, and various private health-care organizations. Within these organizations, nursing students are supervised and preceptored to work with various populations (e.g., pediatrics, adults, elderly), across the health-illness continuum (e.g., acute care, life-threatening illness, palliative care, chronic disease conditions), and in diverse settings and units (e.g., community primary health-care centres, obstetrical units, medical-surgical units).

UCQ hosts a Learning Commons that provides resources and services that enable the UCQ community to discover, apply, evaluate, and communicate information for learning, teaching, and professional practice. Students have access to varied academic supports, including a learning coach, tutoring, and assistance with math, science, and academic and information literacy skills. There are female and male gyms, an outdoor recreation space, a cafeteria, prayer rooms, and student lounges.

## Admissions

### Program Admissions Information

## Deadlines

Applications are accepted from October 15 to April 1 for September entry and November 1 for Winter entry.

## Admission Requirements

### Bachelor of Nursing (Regular Track)

For direct entry into the Bachelor of Nursing (Regular Track) program, prospective students must present:

- The following Grade 12 level subjects with an overall average of 65 per cent or higher (all subjects must be approved as equivalent to Alberta Grade 12):
  - English
  - Mathematics
  - Biology
  - Chemistry
  - One Option Course
  - English Language Proficiency
- Qatari Citizenship, a Qatar Resident's Permit or the ability to seek Permanent Residency through a family member (UCQ cannot issue Student Visas)

**Note:** Students who meet all admission requirements will be admitted directly to the Bachelor of Nursing program. Students who lack the appropriate high school courses and grades and/or require the English Language Proficiency requirement may be admitted to the Nursing Foundation Program (see admission requirements below).

## English Language Proficiency

The State of Qatar has designated English as the language of health-care delivery. Nursing education and the Nursing profession require a high level of spoken and written communication skill in order to ensure patient safety. Students who, after admission to the Diploma in Nursing or Bachelor of Nursing (Regular or Post-Diploma), show an inadequate command of spoken or written

English must improve their proficiency to the Faculty's satisfaction in collaboration with the Nursing Foundation Program. Students may be asked to withdraw from the program if their ability in English interferes with their ability to provide patient care.

For admission to the Bachelor of Nursing or the Diploma in Nursing program, students must present a minimum score of:

- 80 on Test of English as a Foreign Language (TOEFL) Internet-based test (213 on the computer-based TOEFL or 550 on the paper-based TOEFL),
- or a minimum score of 6.0 on the International English Language Testing System (IELTS) test,
- or minimum score of 60 on the Canadian Academic English Language Assessment (CAEL),
- or a minimum score of 77 on the Michigan English Language Assessment Battery (MELAB) examination.

For admission to the Nursing Foundation Program, students must present a minimum score of:

- 40 on Test of English as a Foreign Language (TOEFL) Internet-based test (120 on the computer-based TOEFL or 433 on the paper-based TOEFL),
- a minimum score of 4.0 on the International English Language Testing System (IELTS) test,
- an acceptable score on the UCQ placement test.

### Immunization Requirements

- All nursing students are required to complete a series of immunization and diagnostic tests as outlined on the Student Immunization Form. Documented proof of completion must be provided to the University of Calgary in Qatar prior to commencement of the program.
- Throughout the BN program, students are required to ensure that immunizations are current and must provide proof of updates to the University of Calgary in Qatar. Failure to do so will result in students being removed from clinical courses until such time as adequate proof has been provided. These requirements may change during the program as determined by UCQ in collaboration with Alberta Health Services and the Qatar Ministry of Public Health. Students will be informed if there are changes.

### Cardio-Pulmonary Resuscitation Certification

- All BN students will be required to submit proof of current Basic Life Support (BLS) for Health Care Providers (Level C) prior to the commencement of clinical practice courses. Evidence of such certification is to be provided to the practice instructor.
- Students will be responsible for obtaining course training and certification.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

### Academic Progression Requirements

Promotion from year to year is by recommendation of the Qatar Faculty. For purposes of promotion, the academic year is considered to be from September 1 of one year to August 31 of the next. Hence, Spring Intersession grades are calculated with the previous Fall/Winter Term grades. The minimum requirement is a grade point average of 2.00 in each of the first two years and 2.50 in each of the last two years.

### Duration of Degree Program

Except with special permission of the Dean, the BN degree must be completed within seven calendar years from the date of initial registration in the program.

### Transfer Credit

The 120-unit (four-year or 12 terms of study) curriculum outlined below is intended primarily for high school students.

Transfer students who have prior post-secondary credit in non-nursing support courses may be eligible to complete the BN in a shorter timeframe. Details will be made available to students as their credit is evaluated at the time of admission, and will be dependent on practice and faculty resources and student demand.

Students transferring from other institutions or faculties within the University of Calgary in Qatar are considered on an individual basis. However, students will be required to complete the equivalent of not fewer than 30 units, at least 18 units of which must be nursing courses taken as a BN student.

For other regulations related to the Qatar Faculty, see: [3. Qatar Faculty Regulations](#).

**Additional Comments:**

**Requirements for Students Admitted Before 2020**

**Type**

Completion Requirement

Core Nursing Courses (87 units)

(Note: Includes 6 units of science courses taught by Nursing in Qatar Faculty)

**Complete ALL of the following Courses:**

- **NURS201 - Introduction To Nursing (Inactive)**  
**AND NURS207 - Nursing Inquiry (Inactive)**  
**AND NURS211 - Health Assessment (Inactive)**  
**AND NURS213 - Consolidation Practicum I (Inactive)**  
**AND NURS221 - Anatomy and Physiology I (Inactive)**  
**AND NURS222 - Anatomy and Physiology II (Inactive)**  
**AND NURS223 - Foundational Concepts in Nursing Practice I (Inactive)**  
**AND NURS224 - Foundational Concepts in Nursing Practice II (Inactive)**  
**AND NURS227 - Nursing Therapeutics for Alterations in Health I (Inactive)**  
**AND NURS301 - Adult Health Theory (Inactive)**  
**AND NURS302 - Adult Health Practice (Inactive)**  
**AND NURS303 - Family Growth And Development II (Inactive)**  
**AND NURS305 - Psychiatric/Mental Health Pract (Inactive)**  
**AND NURS307 - Nursing Of Families (Inactive)**  
**AND NURS309 - Nursing Research (Inactive)**  
**AND NURS327 - Nursing Therapeutics for Alterations in Health II (Inactive)**  
**AND NURS401 - Community Health Theory (Inactive)**  
**AND NURS402 - Community Health Practice (Inactive)**  
**AND NURS403 - Childbearing Families - Theory (Inactive)**  
**AND NURS404 - Childbearing Families - Practice (Inactive)**  
**AND NURS405 - Issues In Professional Practice (Inactive)**  
**AND NURS406 - Consolidation Practicum II (Inactive)**  
**AND NURS501 - Adv Concepts In Nursing Practice (Inactive)**  
**AND NURS502 - Senior Clinical Practicum**

Support Courses (12 units)

Humanities

Philosophy

Science

STAT205 Intro to Statistical Inquiry

Options (21 units of Nursing or non-Nursing electives)

Additional Comments:

Requirements for Students Admitted 2020 or Later

Type

Completion Requirement

Core Nursing Courses (96 units)

(Note: Includes 9 units of science courses taught by Nursing in Qatar Faculty)

Complete ALL of the following Courses:

- NURS202 - Biochemistry and Microbiology for Nurses (Inactive)
- AND** NURS206 - Introduction to the Nursing Profession (Inactive)
- AND** NURS208 - Perspectives and Influences of Health (Inactive)
- AND** NURS210 - Nursing Concepts and Therapeutics I (Inactive)
- AND** NURS221 - Anatomy and Physiology I (Inactive)
- AND** NURS222 - Anatomy and Physiology II (Inactive)
- AND** NURS306 - Pathophysiology and Pharmacology Concepts (Inactive)
- AND** NURS308 - Introduction to Health Assessment (Inactive)
- AND** NURS309 - Nursing Research (Inactive)
- AND** NURS310 - Nursing Concepts and Therapeutics II (Inactive)
- AND** NURS312 - Introduction to Integrated Practice (Inactive)
- AND** NURS313 - Nursing for Alterations I (Inactive)
- AND** NURS314 - Families in Transition (Inactive)
- AND** NURS316 - Nursing Practice for Families
- AND** NURS408 - Clinical Leadership and Management
- AND** NURS409 - Acute Mental and Physical Health Alterations
- AND** NURS410 - Nursing Practice for Acute Health
- AND** NURS412 - High Acuity and Complex Health
- AND** NURS413 - Nursing for Alterations II
- AND** NURS414 - Chronic and Life-Limiting Conditions
- AND** NURS416 - Nursing Practice for High Acuity and Chronic Conditions
- AND** NURS504 - Critical Examination Nursing Issues
- AND** NURS505 - Population and Global Health
- AND** NURS506 - Exploratory Nursing Practice
- AND** NURS516 - Transition to Practice: Consolidation

Support Courses (15 units)

- ACWR201 Introduction Academic Writing and ACWR303 Discipline-based ACWR
- STAT205 Intro to Statistical Inquiry
- Humanities
- Philosophy

Options (9 units of Nursing or Non-Nursing electives)

Additional Comments:

## Overview

General Program Information

## Contact Information

# UCalgary

## Location:

Al-Forousiya Road (Opposite Horse Race Track)

PO Box 23133

Doha, Qatar

Phone: +974 4406 5222

Email address: [ucqadmit@ucalgary.ca](mailto:ucqadmit@ucalgary.ca)

Website: [ucalgary.edu.qa](http://ucalgary.edu.qa)

## Introduction

The University of Calgary in Qatar (UCQ) is a branch campus of the University of Calgary, established in 2006. UCQ exclusively offers programs that prepare nurses and offers BN and MN programs. UCQ's vision is to be the model for excellence in international nursing education, practice, and scholarship and its mission is to enrich the health and wellness in Qatar by educating and developing world-class nurses. The Canadian Association of Schools of Nursing accredits the undergraduate nursing programs at UCQ. UCQ nursing graduates receive the same degree credentials as students at the University of Calgary main campus. The BN programs support nursing graduates to achieve excellence in entry-level competences as defined by the College and Association of Registered Nurses of Alberta's (CARNA) (2019) and to demonstrate professional, legal, and ethical decision-making as outlined in the Canadian Nurses Association (2017) and the International Council of Nurses (2012) Codes of Ethics. Exemplars applied throughout the curricula are tailored and relevant to the Qatar context.

## Professional Conduct

The study of nursing places students in a position of special trust with persons/patients, families, with nurses, and with other health-care professionals. The Qatar Faculty of Nursing recognizes that nursing education occurs both inside and outside the classroom and has the responsibility to ensure that its graduates are competent and ethical. Students are expected to comply with all University of Calgary policies and regulations. Although nursing students in program are not regulated members of QCHP, as part of their formation as professional nurses, they are also expected to be familiar with and to meet professional and ethical competences and standards as outlined by:

CARNA (2019). Entry-to-practice competencies for the practice of registered nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

QHCP (2014). Nursing Regulations in the State of Qatar. <https://lc.ucalgary.edu.qa/c.php?g=825172&p=5896718>

Canadian Nurses Association (2017). Code of Ethics for Registered Nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

## Career Opportunities

To practice as a Registered Generalist Nurse in Qatar, one must be licensed through the Qatar Council for Health Professionals (QCHP). UCQ nursing students are prepared to write a national licensing exam as defined by QCHP. Upon graduation, UCQ nursing graduates are prepared to work as practitioners across diverse settings, and with persons, families, and communities experiencing varying degrees of wellness, health, and illness. UCQ nursing graduates have strong foundations skills for Interprofessional practice, leadership, and research.

## Student Affairs

### Advising Services

Student advisors are available in Student and Enrolment Services. Contact information, including office hours, can be found at: [ucalgary.edu.qa/current-students/student-services](http://ucalgary.edu.qa/current-students/student-services). Students are encouraged to become familiar with the office and its services.

### Nursing Student Society in Qatar (NSSQ)

The NSSQ is a society consisting of elected representatives from the Nursing student body. NSSQ serves students by providing faculty-student liaisons, information on current nursing issues, social functions, and a support network for nursing students.

## Resources

The Faculty houses a Clinical Simulation and Standardized Patient Centre and several laboratories. UCQ has partnered with several health services organizations through the country that provide opportunity for students to apply theory in practice

settings. Health service organizations include Hamad Medical Corporation (HMC), Primary Health Care Cooperation (PHCC), Sidra, and various private health-care organizations. Within these organizations, nursing students are supervised and preceptored to work with various populations (e.g., pediatrics, adults, elderly), across the health-illness continuum (e.g., acute care, life-threatening illness, palliative care, chronic disease conditions), and in diverse settings and units (e.g., community primary health-care centres, obstetrical units, medical-surgical units).

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## Admissions

### Program Admissions Information

## Deadlines

Applications are accepted from October 15 to April 1 for September entry and November 1 for Winter entry.

## Admission Requirements

**Diploma in Nursing Program (Program is currently under review. No new admissions will be permitted)**

- The following Grade 12 level subjects with an overall average of 65 per cent or higher (all subjects must be approved as equivalent to Alberta Grade 12):
- English
- Mathematics
- Biology
- Chemistry
- One Option Course
- English Language Proficiency
- Qatari Citizenship, a Qatar Resident's Permit or the ability to seek Permanent Residency through a family member (UCQ cannot issue Student Visas)

**Note:** Students who meet all admission requirements will be admitted directly to the Diploma in Nursing program. Students who lack the appropriate high school courses and grades and/or require the English Language Proficiency requirement may be admitted to the Nursing Foundation Program (see admission requirements below).

## English Language Proficiency

The State of Qatar has designated English as the language of health-care delivery. Nursing education and the Nursing profession require a high level of spoken and written communication skill in order to ensure patient safety. Students who, after admission to the Diploma in Nursing or Bachelor of Nursing (Regular or Post-Diploma), show an inadequate command of spoken or written English must improve their proficiency to the Faculty's satisfaction in collaboration with the Nursing Foundation Program. Students may be asked to withdraw from the program if their ability in English interferes with their ability to provide patient care.

For admission to the Bachelor of Nursing or the Diploma in Nursing program, students must present a minimum score of:

- 80 on Test of English as a Foreign Language (TOEFL) Internet-based test (213 on the computer-based TOEFL or 550 on the paper-based TOEFL),
- or a minimum score of 6.0 on the International English Language Testing System (IELTS) test,
- or minimum score of 60 on the Canadian Academic English Language Assessment (CAEL),
- or a minimum score of 77 on the Michigan English Language Assessment Battery (MELAB) examination.

For admission to the Nursing Foundation Program, students must present a minimum score of:

- 40 on Test of English as a Foreign Language (TOEFL) Internet-based test (120 on the computer-based TOEFL or 433 on the paper-based TOEFL),
- a minimum score of 4.0 on the International English Language Testing System (IELTS) test,

- an acceptable score on the UCQ placement test.

## Immunization Requirements

- All nursing students are required to complete a series of immunization and diagnostic tests as outlined on the Student Immunization Form. Documented proof of completion must be provided to the University of Calgary in Qatar prior to commencement of the program.
- Throughout the BN program, students are required to ensure that immunizations are current and must provide proof of updates to the University of Calgary in Qatar. Failure to do so will result in students being removed from clinical courses until such time as adequate proof has been provided. These requirements may change during the program as determined by UCQ in collaboration with Alberta Health Services and the Qatar Ministry of Public Health. Students will be informed if there are changes.

## Cardio-Pulmonary Resuscitation Certification

- All BN students will be required to submit proof of current Basic Life Support (BLS) for Health Care Providers (Level C) prior to the commencement of clinical practice courses. Evidence of such certification is to be provided to the practice instructor.
- Students will be responsible for obtaining course training and certification.

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

##### Completion Requirement

#### Nursing Courses (60 units)

##### Complete ALL of the following Courses:

- NURS201 - Introduction To Nursing (Inactive)  
**AND** NURS203 - Foundations For Nursing Practice (Inactive)  
**AND** NURS205 - Therapeutic Interventions (Inactive)  
**AND** NURS207 - Nursing Inquiry (Inactive)  
**AND** NURS209 - Nursing Practice (Inactive)  
**AND** NURS211 - Health Assessment (Inactive)  
**AND** NURS213 - Consolidation Practicum I (Inactive)  
**AND** NURS221 - Anatomy and Physiology I (Inactive)  
**AND** NURS222 - Anatomy and Physiology II (Inactive)  
**AND** NURS301 - Adult Health Theory (Inactive)  
**AND** NURS302 - Adult Health Practice (Inactive)  
**AND** NURS303 - Psychiatric/Mental Health Theory (Inactive)  
**AND** NURS305 - Psychiatric/Mental Health Pract (Inactive)  
**AND** NURS311 - Pathophysiology (Inactive)  
**AND** NURS403 - Childbearing Families - Theory (Inactive)  
**AND** NURS404 - Childbearing Families - Practice (Inactive)  
**AND** NURS406 - Consolidation Practicum II (Inactive)

#### Support Courses (9 units)

##### Complete ALL of the following Courses:

- UNIV205 - Effective Learning Strategies  
**AND** CPSC203 - Introduction to Problem Solving using Application Software  
**AND** PHIL313 - Bioethics

Options (6 units)

Complete 6 units of of Nursing or Non-Nursing electives

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Location:

Al-Forousiya Road (Opposite Horse Race Track)

PO Box 23133

Doha, Qatar

Phone: +974 4406 5222

Email address: [ucqadmit@ucalgary.ca](mailto:ucqadmit@ucalgary.ca)

Website: [ucalgary.edu.qa](http://ucalgary.edu.qa)

## Introduction

The University of Calgary in Qatar (UCQ) is a branch campus of the University of Calgary, established in 2006. UCQ exclusively offers programs that prepare nurses and offers BN and MN programs. UCQ's vision is to be the model for excellence in international nursing education, practice, and scholarship and its mission is to enrich the health and wellness in Qatar by educating and developing world-class nurses. The Canadian Association of Schools of Nursing accredits the undergraduate nursing programs at UCQ. UCQ nursing graduates receive the same degree credentials as students at the University of Calgary main campus. The BN programs support nursing graduates to achieve excellence in entry-level competences as defined by the College and Association of Registered Nurses of Alberta's (CARNA) (2019) and to demonstrate professional, legal, and ethical decision-making as outlined in the Canadian Nurses Association (2017) and the International Council of Nurses (2012) Codes of Ethics. Exemplars applied throughout the curricula are tailored and relevant to the Qatar context.

## Professional Conduct

The study of nursing places students in a position of special trust with persons/patients, families, with nurses, and with other health-care professionals. The Qatar Faculty of Nursing recognizes that nursing education occurs both inside and outside the classroom and has the responsibility to ensure that its graduates are competent and ethical. Students are expected to comply with all University of Calgary policies and regulations. Although nursing students in program are not regulated members of QCHP, as part of their formation as professional nurses, they are also expected to be familiar with and to meet professional and ethical competences and standards as outlined by:

CARNA (2019). Entry-to-practice competencies for the practice of registered nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

QHCP (2014). Nursing Regulations in the State of Qatar. <https://lc.ucalgary.edu.qa/c.php?g=825172&p=5896718>

Canadian Nurses Association (2017). Code of Ethics for Registered Nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

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## Student Affairs

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## Admissions

### Program Admissions Information

## Deadlines

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## Admission Requirements

### Nursing Foundation Program

Students wishing to enter the Nursing Foundation Program leading to the Bachelor of Nursing degree program or the Diploma in Nursing program must present the following:

- Five academic high school subjects including science and mathematics at least at the grade 11 level, with an overall average of 65 per cent. Students with results lower than 65 per cent in any of biology, chemistry or mathematics at the grade 12 level will normally be required to take the foundation course in the subject.
- A minimum score of 40 on the TOEFL iBT, or equivalent IELTS or CAEL test score, or acceptable score on the UCQ English Placement test.
- Qatari Citizenship, a Qatar Resident's Permit or the ability to seek Permanent Residency through a family member (UCQ cannot issue Student Visas).

## English Language Proficiency

The State of Qatar has designated English as the language of health-care delivery. Nursing education and the Nursing profession require a high level of spoken and written communication skill in order to ensure patient safety. Students who, after admission to the Diploma in Nursing or Bachelor of Nursing (Regular or Post-Diploma), show an inadequate command of spoken or written English must improve their proficiency to the Faculty's satisfaction in collaboration with the Nursing Foundation Program. Students may be asked to withdraw from the program if their ability in English interferes with their ability to provide patient care.

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## UCalgary

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## Program Details

### Simple Requisites

Course Requirements
Type
Completion Requirement
English for Academic Purposes: <b>Complete all of the following:</b> FNDE 150: Foundational Academic Writing and Grammar I FNDE 153: Foundational Reading Comprehension and Proficiency I FNDE 160: Foundational Academic Writing and Grammar II FNDE 163: Foundational Reading Comprehension and Proficiency II FNDE 170: Academic Writing and Grammar I FNDE 173: Reading Comprehension and Proficiency I FNDE 180: Academic Writing and Grammar II FNDE 183: Reading Comprehension and Proficiency II FNDE 190: Academic Writing and Grammar III FNDE 193: Reading Comprehension and Proficiency III
Mathematics/Science: <b>Complete all of the following:</b> QBIO101 QBIO102 QCHE101

QCHE102  
QMAT101  
QMAT102

Additional Comments:

## Overview

General Program Information

## Contact Information

Location:

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Doha, Qatar

Phone: +974 4406 5222

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Canadian Nurses Association (2017). Code of Ethics for Registered Nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

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# UCalgary

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## Admissions

### Program Admissions Information

## Deadlines

Applications are accepted from October 15 to April 1 for September entry and November 1 for Winter entry.

## Admission Requirements

### Bachelor of Nursing (Post-Diploma)

For direct entry into the Bachelor of Nursing (Post-Diploma) program prospective students must present the following:

- A Diploma from the High Institute of Nursing, a Nursing Diploma from Canada, or the equivalent
- A grade point average 2.00 or greater (on a four-point scale)
- Completion of the following Grade 12 level subjects (must be approved as equivalent to Alberta Grade 12):
- English
- Mathematics
- Biology
- Chemistry
- One Option Course
- English Language Proficiency
- Qatari Citizenship, a Qatar Resident's Permit or the ability to seek Permanent Residency through a family member (UCQ cannot issue Student Visas)

Students who meet all admission requirements will be admitted directly to the Bachelor of Nursing program. Students who only lack the English Language Proficiency requirements may be admitted to the Nursing Foundation Program (see admission requirements below).

## English Language Proficiency

The State of Qatar has designated English as the language of health-care delivery. Nursing education and the Nursing profession require a high level of spoken and written communication skill in order to ensure patient safety. Students who, after admission to the Diploma in Nursing or Bachelor of Nursing (Regular or Post-Diploma), show an inadequate command of spoken or written

English must improve their proficiency to the Faculty's satisfaction in collaboration with the Nursing Foundation Program. Students may be asked to withdraw from the program if their ability in English interferes with their ability to provide patient care.

For admission to the Bachelor of Nursing or the Diploma in Nursing program, students must present a minimum score of:

- 80 on Test of English as a Foreign Language (TOEFL) Internet-based test (213 on the computer-based TOEFL or 550 on the paper-based TOEFL),
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- or a minimum score of 77 on the Michigan English Language Assessment Battery (MELAB) examination.

For admission to the Nursing Foundation Program, students must present a minimum score of:

- 40 on Test of English as a Foreign Language (TOEFL) Internet-based test (120 on the computer-based TOEFL or 433 on the paper-based TOEFL),
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### Immunization Requirements

- All nursing students are required to complete a series of immunization and diagnostic tests as outlined on the Student Immunization Form. Documented proof of completion must be provided to the University of Calgary in Qatar prior to commencement of the program.
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- All BN students will be required to submit proof of current Basic Life Support (BLS) for Health Care Providers (Level C) prior to the commencement of clinical practice courses. Evidence of such certification is to be provided to the practice instructor.
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### Program Details

#### Simple Requisites

##### Requirements for Students Admitted Before 2020

##### Type

##### Completion Requirement

##### Nursing Courses (24 units)

##### Complete ALL of the following Courses:

- NURS411 - Nursing Scholarship (Inactive)  
**AND** NURS421 - Nursing Of Families (Inactive)  
**AND** NURS441 - Health Assessment Across the Life-Course (Inactive)  
**AND** NURS531 - Community Health Nursing Theory (Inactive)  
**AND** NURS533 - Community Health Nurs Clinic Prac (Inactive)  
**AND** NURS537 - Nursing Leadership And Management (Inactive)  
**AND** NURS539 - Research In Nursing (Inactive)  
**AND** NURS543 - Senior Practicum (Inactive)

##### Support Courses (3 units)

##### Complete ALL of the following Courses:

- STAT205 - Introduction to Statistical Inquiry

Options (18 units)

18 units of Nursing or Non-Nursing electives

**Additional Comments:**

#### Requirements for Students Admitted 2020 or Later

##### Type

Completion Requirement

Nursing Courses (27 units)

**Complete ALL of the following Courses:**

- NURS309 - Nursing Research (Inactive)  
**AND** NURS418 - Nursing as a Knowledge and Relational Profession (Inactive)  
**AND** NURS419 - Assessment and Therapeutics for Alterations in Health I (Inactive)  
**AND** NURS420 - Family and Community Health (Inactive)  
**AND** NURS441 - Health Assessment Across the Life-Course (Inactive)  
**AND** NURS518 - Advanced Clinical Leadership and Management (Inactive)  
**AND** NURS519 - Assessment and Therapeutics for Alterations II (Inactive)  
**AND** NURS524 - Critical Analyses of Nursing Issues (Inactive)  
**AND** NURS526 - Consolidation for Advanced Practice (Inactive)

Support Courses (9 units)

**Complete ALL of the following Courses:**

- ACWR201 - Introduction to Academic Writing  
**AND** ACWR303 - Discipline-based Academic Writing  
**AND** STAT205 - Introduction to Statistical Inquiry

Options (9 units)

9 units of Nursing or Non-Nursing electives

**Additional Comments:**

## Faculty of Science Department

Summary of Degree Programs

Student Affairs

Faculty Regulations

Program Details

Suspended Programs

Administration

Departments

Courses of Instruction by the Faculty of Science

## Programs

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## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

##### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Courses Constituting the Field of Actuarial Sciences

##### Type

Completion Requirement

#### Courses Constituting the Field of Actuarial Sciences

Students must successfully complete a minimum of 57 units to a maximum of 66 units in Courses Constituting the Field of Actuarial Science while fulfilling the Program Requirements.

**Earn at least 57 credits from the following:**

- Courses Constituting the Field of Actuarial Science

Courses in Risk Management and Insurance are not included in the field, but are relevant and are recommended electives for Actuarial Science students. Interested students should consult the Department or the Chair in Risk Management and Insurance in the Haskayne School of Business.

Actuarial Science courses, along with Statistics 407, 421, 429 and 505, cover significant portions of the course of study for the early Casualty Actuarial Society Examinations and Society of Actuaries Examinations/Courses. Students are advised to select additional courses in Economics, Finance, Risk Management and Insurance, and Statistics as electives in order to complete the course of study for these professional examinations, and also to prepare for the advanced Casualty Actuarial Society Examinations/Society of Actuaries Examinations/Courses. Students should speak with a Departmental advisor for guidance.

Students who wish to pursue possible credit towards the Society of Actuaries VEE Accounting and Finance requirements are recommended to take Accounting 217 and Finance 317, respectively. Such students must be in good standing and in the third or fourth year of the Actuarial Science program. Certain other prerequisites for these courses may be waived, but Economics 201 and 203 are required for Finance 317. Students should contact an advisor in the Haskayne School of Business for registration approval. (Note, although sufficiently high grades in Accounting 217 and Finance 317 should satisfy the Society of Actuaries' requirements, ultimately the Society of Actuaries will make this determination.

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Required Courses - Major Program

**Earn at least 57 credits from the following:**

- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 3 units - Mathematics 367
- 3 units - Computer Science 217 or 231 or Data Science 211
- 12 units - Actuarial Science 325, 327, 427 and 527
- 21 units - Selected from: Courses labelled Actuarial Science or Statistics 407, 429, 505, 533, 543

#### Required Options - Major Program

**Earn at least 63 credits from the following:**

- 3 units from the Field of Actuarial Science at the 300 level or higher
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 33 units - Non-Major Field Requirement: Options outside of the Field of Actuarial Science
- 9 units - Options

#### Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Double Major Combination with Mathematics and Actuarial Science
- Double Major and Major/Minor Combinations in Mathematics and Statistics
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see **3.2 Admission**.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Courses Constituting the Field of Actuarial Science

##### Type

Completion Requirement

#### Courses Constituting the Field of Actuarial Science

Students must successfully complete a minimum of 60 units to a maximum of 78 units in Courses Constituting the Field of Actuarial Science while fulfilling the following requirements:

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Actuarial Science

Courses in Risk Management and Insurance are not included in the field, but are relevant and are recommended electives for Actuarial Science students. Interested students should consult the Department or the Chair in Risk Management and Insurance in the Haskayne School of Business.

Actuarial Science courses, along with Statistics 407, 421, 429 and 505, cover significant portions of the course of study for the early Casualty Actuarial Society Examinations and Society of Actuaries Examinations/Courses. Students are advised to select additional courses in Economics, Finance, Risk Management and Insurance, and Statistics as electives in order to complete the course of study for these professional examinations, and also to prepare for the advanced Casualty Actuarial Society Examinations/Society of Actuaries Examinations/Courses. Students should speak with a Departmental advisor for guidance.

Students who wish to pursue possible credit towards the Society of Actuaries VEE Accounting and Finance requirements are recommended to take Accounting 217 and Finance 317, respectively. Such students must be in good standing and in the third or fourth year of the Actuarial Science program. Certain other prerequisites for these courses may be waived, but

Economics 201 and 203 are required for Finance 317. Students should contact an advisor in the Haskayne School of Business for registration approval. (Note, although sufficiently high grades in Accounting 217 and Finance 317 should satisfy the Society of Actuaries' requirements, ultimately the Society of Actuaries will make this determination.

## Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

##### Earn at least 63 credits from the following:

- 3 units - Mathematics 271 or 273
- 9 units - Mathematics 249 or 265, 267, 367
- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Statistics 321 and 323
- 3 units - Computer Science 217 or 231 or Data Science 211
- 12 units - Actuarial Science 325, 327, 427 and 527
- 3 units - Statistics 429
- 21 units - Selected from: Courses labelled Actuarial Science or Statistics 407, 429, 505, 533, 543

#### Required Options - Honours Program

##### Earn at least 57 credits from the following:

- 6 units - Selected from Actuarial Science, Economics, Risk Management and Insurance, and Statistics
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 27 units - Non-Major Field Requirement: Options from outside the Field of Actuarial Science
- 6 units - Options

## Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Double Major Combination with Mathematics and Actuarial Science
- Double Major and Major/Minor Combinations in Mathematics and Statistics
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5385

**Fax:** 403.289.3331

**Website:** [science.ucalgary.ca/physics-astronomy](http://science.ucalgary.ca/physics-astronomy)

## Admissions

Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

Simple Requisites

### Faculty Requirements

#### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

## Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Double Major and Major/Minor Combinations Submit

A Major in either Physics or Astrophysics cannot be combined with either a Minor in Physics or Astrophysics.

Students may not complete more than one Minor offered by the Department of Physics and Astronomy.

Students may complete Physics and Astrophysics as a Double Major program.

## Courses Constituting the Field of Astrophysics

### Type

Completion Requirement

### Courses Constituting the Field of Astrophysics

Students must successfully complete a minimum of 60 units to a maximum of 66 units in Courses Constituting the Field of Astrophysics while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Astrophysics

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

### Required Courses - Major Program

**Earn at least 75 credits from the following:**

- 3 units - Astrophysics 305
- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 265 or 275 or 249
- 3 units - Mathematics 267 or 277
- 3 units - Chemistry 201, 203, 209 or 211
- 3 units - Computer Science 217 or Data Science 211
- 9 units - Astrophysics 307, 401, 403
- 24 units - Physics 341, 343, 355, 375, 381, 443, 449 and 455
- 6 units - Two of Physics 481, Astrophysics 503 or Astrophysics 509
- 3 units - Mathematics 311 or 313
- 6 units - Mathematics 375 or 376, and Mathematics 367 or 377
- 3 units - Physics 435 or Mathematics 433

### Required Options - Major Program

**Earn at least 45 credits from the following:**

- 9 units - 400- or 500-level from the Field of Astrophysics

- 3 units - Science options
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 9 units - Non-Major Field Requirement: Options that are not in the Field of Astrophysics
- 6 units - Options

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

**Additional Comments:**

### Recommended Program Sequence for the BSc in Astrophysics

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an **optional** enhancement to this degree program, refer to:

### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5385

**Fax:** 403.289.3331

**Website:** [science.ucalgary.ca/physics-astronomy](http://science.ucalgary.ca/physics-astronomy)

## Admissions

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Double Major and Major/Minor Combinations Submit

A Major in either Physics or Astrophysics cannot be combined with either a Minor in Physics or Astrophysics.

Students may not complete more than one Minor offered by the Department of Physics and Astronomy.

Students may complete Physics and Astrophysics as a Double Major program.

#### Courses Constituting the Field of Astrophysics

##### Type

Completion Requirement

#### Courses Constituting the Field of Astrophysics

Students must successfully complete a minimum of 69 units to a maximum of 78 units in Courses Constituting the Field of Astrophysics while fulfilling the Program Requirements.

**Earn at least 69 credits from the following:**

- Courses Constituting the Field of Astrophysics

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Honours Program**

**Earn at least 93 credits from the following:**

- 3 units - Astrophysics 305
- 6 units - Physics 227(1) or 211 or 221; and 229
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 265(2) or 275(2) or 249(2)
- 3 units - Mathematics 267(2) or 277(2)
- 3 units - Chemistry 201 or 203 or 211 or 209
- 3 units - Computer Science 217 or Data Science 211
- 9 units - Astrophysics 307, 401, 403
- 24 units - Physics 341, 343, 355, 375, 381, 443, 449 and 455
- 9 units - Physics 481, and Astrophysics 503 and 509
- 3 units - Mathematics 311 or 313
- 6 units - Mathematics 375(2) or 376(2), and Mathematics 367(2)
- 3 units - Physics 435 or Mathematics 433
- 15 units - Physics 451, 457, 501, 543, and 599

(1)The recommended course for the Physics major is Physics 227.

(2)The recommended sequence for Mathematics courses in Physics and Astronomy is Mathematics 265, 267, 376, and 367.

**Required Options - Honours Program**

**Earn at least 27 credits from the following:**

- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 9 units - Options

**Additional Comments:**

**Program Sequence**

**Type**

Completion Requirement

**Additional Comments:**

**Recommended Program Sequence for the BSc Honours in Astrophysics**

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

**Degree Options**

**Type**

Completion Requirement

## Degree Options

To complete an **optional** enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Biological Anthropology to students registered in an existing graduate program. The student will receive the degree offered by the home program:

- Doctor of Philosophy (PhD)
- Master of Science (MSc), thesis-based
- Master of Arts (MA), thesis-based

Given the limited resources, the specialization may, in any year, admit fewer applicants than those who are qualified to undertake graduate studies.

Location: Earth Sciences 852

Program number: 403.220.2665

Fax: 403.282.9562

Email address: <mailto:wwilson@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/anthropology-archaeology/future-students/graduate/programs/biological-anthropology>

## Admissions

### Program Admissions Information

The deadlines for the submission of complete applications is January 15 for September admission and funding.

In addition to Faculty of Graduate Studies **admission** requirements, all applicants must meet the minimum standards of the home program. Admission to the specialization requires:

- a) A Bachelor of Arts or Bachelor of Science degree (and Master of Arts degree for admission to the PhD program) in Anthropology, Archaeology, Biology, Zoology, Ecology, or Health Sciences with a GPA of at least 3.30 on a four-point scale in the last two years of program or over the last 60 units.
- b) An example of the applicant's written work: a term paper, research paper, Master of Arts, or honours thesis that the applicant considers representative of their best work. Published work authored by the applicant is also acceptable provided the applicant is the sole or senior author.
- c) A concise statement setting forth the applicant's academic interests and reasons for wishing to pursue graduate work in the specialization. The area of thesis research should also be specified.

d) An up-to-date curriculum vitae.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies ([see regulations](#)) and the home program requirements, the Specialization requires:

### Master of Arts / Master of Science

a) Fifteen units, which shall include:

- [ARKY617 Theory & its Appl in Biol Anth](#)
- [ANTH603 Thesis Development](#)
- Any two of the following: [MDSC755 Directed Study](#), [ARKY613 AnalysisOfHumanSkeletalRemain](#), [ANTH635 Primatological Theory](#), [ANTH605 Prof Skills ForAnthropologists](#), or [ANTH613 IssuesMethodology&Primatology](#)

b) One optional course relevant to the proposed research topic.

c) All students are expected to have proficiency in statistics. The supervisor and two other faculty members of the specialization, in concert with the applicant, will determine if additional course work is needed in statistics, depending upon the applicant's background and proposed research area.

d) A season of field work offering appropriate experience for the proposed research (for example, primate field study, archaeological excavation, or field research in human biology), to be approved by the supervisor. However, students specializing in laboratory-based topics (for example, morphological studies or bone chemistry) may substitute an approved program of laboratory work for the field work requirement.

### Doctor of Philosophy

a) Course Requirements:

If students entering the PhD specialization have completed the master's specialization in Biological Anthropology, or if they have completed equivalent courses in another master's program, they will not be required to repeat those courses. Rather, additional courses will be determined at the discretion of the student's supervisory committee. Normally, 18 units, which shall include (unless completed previously):

- [ARKY617 Theory & its Appl in Biol Anth](#)
- [ANTH701 Independent Studies](#)
- Any two of the following: [MDSC755 Directed Study](#), [ARKY613 AnalysisOfHumanSkeletalRemain](#), [ANTH635 Primatological Theory](#), [ANTH605 Prof Skills ForAnthropologists](#), or [ANTH613 IssuesMethodology&Primatology](#)
- Two courses relevant to the proposed research topic

The number of courses required of each student may vary according to their particular needs as determined by the Supervisory Committee. Statistics will be required in the event the student's committee deems it necessary. The courses will be selected based on the student's previous statistics training and the type of data analyses to be conducted in the research.

b) Two seasons of fieldwork offering appropriate experience for the proposed research topic (for example, primate field study, archaeological excavation, or field research in human biology), to be approved by the supervisor. Fieldwork may have been undertaken before entry into the specialization and may be counted toward the fieldwork requirement. Students specializing in laboratory-based topics (for example, morphological studies or bone chemistry) may substitute an approved specialization of laboratory work for the fieldwork requirement.

c) Submission to the supervisory committee of a paper that demonstrates an ability to research and write a paper at a professional level.

d) Proficiency in a second language.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### Credit for Undergraduate Courses

Students may apply for no more than one 500-level course for graduate credit, subject to the approval of the Program Director. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

#### Time Limit

Expected completion time for the MA and MSc is two years and maximum completion time is four years.

Expected completion time for the PhD is four years and maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

#### Supervisory Assignments

Students will be assigned a supervisor upon admission.

#### Research Proposal Requirements

Within twenty months of entering the program, the student, with the supervisor's advice, develops a thesis research proposal. This is then transmitted to the student's supervisory committee for agreement and to the Graduate Program Director of the student's home program for approval and placed on file.

#### Required Examinations

Final thesis oral examinations are open.

#### Oral Candidacy Examinations

Following the completion of all course work, the research paper and the language requirement, doctoral students sit the Candidacy Examination. In the Biological Anthropology Graduate Specialization, the Candidacy Examination consists of two parts in sequence, as follows: (1) a written component and (2) an oral component.

The oral candidacy examination is required by University regulations and must be held no later than twenty-eight months following initial registration as a full-time graduate student in a PhD program. Students entering the doctoral program with a bachelor's degree, or transferring into a doctoral program from a master's program before the master's program is completed, must attempt the candidacy examinations no later than 36 months after initial registration in the Faculty of Graduate Studies.

The Candidacy Examination in the Biological Anthropology Graduate Specialization consists of a written plus an oral examination administered by the Candidacy Examination Committee, composed of the Supervisory Committee plus two additional members, one of whom must be external to the Specialization if the External is not already a member of the Supervisory Committee.

The Candidacy Examination is an examination of the student's knowledge and abilities to reason, utilize the relevant literature, and to solve problems within the three fields or areas which have been set out.

In consultation with the student, the Supervisory Committee will determine three areas of knowledge for which the student will be responsible in their Candidacy Examination. These topics will be communicated (in writing) to the student, with copies to other members of the Supervisory Committee.

These topics will also be communicated to the two other members of the Candidacy Examination Committee, who must be selected no later than eight weeks prior to the oral examination.

Members of the Candidacy Examination Committee will each submit one or two questions, so that there are at least two questions within each of the three areas. The supervisor will select six questions from those submitted, and provide them to the student at least five weeks prior to the Oral Candidacy Examination. The student will select one question from each of the three areas for a total of three questions. The student will have two weeks in which to prepare answers to these questions as a take-home, open-book exam. Each answer should be approximately 6000 words. Copies of the completed examination will be distributed to all members of the Examination Committee. The Committee will assess the written exam on a Pass/Fail basis. The oral examination is conducted in accordance with Faculty of Graduate Studies regulations.

In the oral component of the Candidacy Examination, the written examinations will serve as the basis from which the examination shall proceed, but examiners are not limited to the written component in framing the questions asked, and questioning may range into cognate areas, at the discretion of the Neutral Chair.

Students must pass both the written and oral exams in order to pass the candidacy exam.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the home program by January 2.

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

#### Admission to the Department of Biological Sciences

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

Directly from High School (see Section [3.2 Admission](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.

Subject to the Honours qualifications set out in Subsection [3.2 Admission - Honours Program](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.

From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

#### Admission to Concentrations:

Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

#### Notes:

Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

#### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

Faculty Requirements Type
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## Completion Requirement

### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

BSc Honours in Biochemistry degree program is accredited by the Canadian Society for Chemistry (CSC) for Canadian Chemistry programs. The CSC manages the accreditation of undergraduate chemistry programs nationally and abroad. This program maintains national standards of education and promotes the portability of the qualifications of graduates from such programs.

### Department Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in these courses.

### Courses Constituting the Field of Biochemistry

#### Type

Completion Requirement

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Biochemistry while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Biochemistry

## Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - Major Program

##### Earn at least 78 credits from the following:

- 15 units - Biology 241, 243, 311, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275 and one of Mathematics 211 or 213 or 267 or 277
- 6 units - Physics 211 or 221; and 223
- 3 units - Biochemistry 393
- 12 units - Chemistry 311, 315, 351, 353
- 12 units - Biochemistry 411, 413, 431, 471
- 18 units - Chosen from Biochemistry 443, 541, 543, 547, 551, 553, 555, 561, 575, 577 or Cellular, Molecular and Microbial Biology 411 or 523

#### Breadth Requirement

##### Earn at least 42 credits from the following:

- 12 units - Options selected from courses offered by the Faculty of Science
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 6 units - Non-Major Requirement: Options outside the Field of Biochemistry
- 6 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts linked below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

##### Recommended Program Sequence for the BSc in Biochemistry

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

#### Department Information

**Student enquiries:** 403.220.8600

**Department Office:** Biological Sciences 186

**Website:** [science.ucalgary.ca/biological-sciences](https://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission to the Department of Biological Sciences

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

Directly from High School (see Section [3.2](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.

Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.

From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

## Admission to Concentrations:

Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

## Notes:

Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

## Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

## Completion Requirement

### Additional Comments:

BSc Honours in Biochemistry degree program is accredited by the Canadian Society for Chemistry (CSC) for Canadian Chemistry programs. The CSC manages the accreditation of undergraduate chemistry programs nationally and abroad. This program maintains national standards of education and promotes the portability of the qualifications of graduates from such programs.

### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

## Courses Constituting the Field of Biochemistry

### Type

#### Completion Requirement

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Biochemistry while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Biochemistry

### Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

#### Required Courses - Honours Program

#### Earn at least 84 credits from the following:

- 15 units - Biology 241, 243, 311, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275 and one of Mathematics 211 or 213 or 267 or 277
- 6 units - Physics 211 or 221; and 223
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Chemistry 353 or 355
- 6 units - Chemistry 311 and 315
- 15 units - Biochemistry 411, 413, 431, 471, and Cellular, Molecular and Microbial Biology 411
- 15 units - Chosen from Biochemistry 443, 541, 543, 547, 551, 553, 555, 561, 575, 577 or Cellular, Molecular and Microbial Biology 523
- 6 units - Biochemistry 530

#### Required Options - Honours Program

##### Earn at least 36 credits from the following:

- 12 units - Options selected from courses offered by the Faculty of Science
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 6 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts linked below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

##### Recommended Program Sequence for the BSc Honours in Biochemistry

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Arts and Science Honours Academy
- Embedded Certificates

#### Additional Comments:

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

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### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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### Admission to the Department of Biological Sciences

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see Section [3.2 Admission](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 Admission – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

### Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

### Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing, B. Performance Review, Probationary Status and Dismissal](#).

### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca](http://acat.alberta.ca).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

## Courses Constituting the Field of Biological Sciences

### Type

Completion Requirement

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Biological Sciences while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Biological Sciences

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Required Courses - Major Program

**Earn at least 36 credits from the following:**

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Chemistry 351

Required Options - Major Program

**Earn at least 84 credits from the following:**

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 27 units - From the Field of Biological Sciences
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 15 units - Non-Major Field Requirement
- 18 units - Options

**Additional Comments:**

## Concentrations

### Type

Completion Requirement

Concentrations

Students may focus their program on one of three areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

Concentration in Biodiversity and Conservation

**Earn at least 27 credits from the following:**

- 9 units - Biology 315, 401 and 451
- 6 units - From Biology 435, 453; Cellular, Molecular and Microbial Biology 343; Plant Biology 327; Zoology 401, 403, 435
- 6 units - From Ecology 417, 419, 425, 429, 439
- 6 units - From Biology 507, 509, 520, 528, 591; Biochemistry 507, 528; Cellular, Molecular and Microbial Biology 507, 528, 543, 563; Ecology 413, 501, 507, 527, 528, 529; Marine Science 500, 501, 502, 507, 511, 513, 515, 525, 537, 540, 572, 574; Plant Biology 507, 528, 541; Zoology 507, 528, 567, 571, 576, 577

**Concentration in Biotechnology**

**Earn at least 27 credits from the following:**

- 3 units - Cellular, Molecular and Microbial Biology 343
- 3 units - Entrepreneurship and Innovation 201
- 3 units - From Biology 315 or Medical Science 301
- 3 units - Biochemistry 561
- 9 units - From Biochemistry 431, 443, 541, 543; Biology 501, 503, 505; Cellular, Molecular and Microbial Biology 411, 421, 443, 461, 523; Plant Biology 401, 421
- 6 units - From Biology 507, 528; Biochemistry 507, 528, 547; Cellular, Molecular and Microbial Biology 507, 528, 543, 545, 563; or Chemical Engineering 535

**Concentration in Genetics and Evolution**

**Earn at least 27 credits from the following:**

- 6 units - Biology 315 and 401
- 3 units - Cellular, Molecular and Microbial Biology 411
- 6 units - From Cellular, Molecular and Microbial Biology 343, 421; Plant Biology 327; Zoology 401, 403, 435
- 6 units - From Cellular, Molecular and Microbial Biology 403, 413, 461; Plant Biology 543; Ecology 529
- 6 units - From Biology 505, 507, 528, 591; Biochemistry 507, 528; Cellular, Molecular and Microbial Biology 505, 507, 519, 528, 549, 563; Ecology 507, 528; Plant Biology 507, 528, 541; Zoology 507, 528, 571, 567, 576, 595

**Additional Comments:**

**Program Sequence**

**Type**

Completion Requirement

**Additional Comments:**

**First and Second Year Course Selection**

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts linked below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

**Recommended Program Sequence for the BSc in Biological Sciences**

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an **optional** enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](https://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

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All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see **3.2 Admission**.

## Admission to the Department of Biological Sciences

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see Section [3.2 Admission](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

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## Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

## Department Regulations

### Type

Completion Requirement

**Additional Comments:**

### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in these courses.

## Courses Constituting the Field of Biological Sciences

### Type

Completion Requirement

Students must successfully complete a minimum of 60 units, to a maximum of 78 units, in Courses Constituting the Field of Biological Sciences while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Biological Sciences

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Required Courses - Honours Program

**Earn at least 42 credits from the following:**

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Chemistry 351

- 6 units - Biology 530

#### Required Options - Honours Program

##### Earn at least 78 credits from the following:

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 27 units - Three sets of 9 units from three divisions of Biological Science, with at least 18 units at the 400 level or higher
- 6 units - From the Field of Biological Sciences
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 3 units - Non-Major Field Requirement: Options that are not in the Field of Biological Sciences
- 18 units - Options

#### Additional Comments:

#### Concentrations

##### Type

##### Completion Requirement

#### Concentrations

Students may focus their program on one of three areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

#### Concentration in Biodiversity and Conservation

##### Earn at least 27 credits from the following:

- 9 units - Biology 315, 401 and 451
- 6 units - From Biology 435, 453; Cellular, Molecular and Microbial Biology 343; Plant Biology 327; Zoology 401, 403, 435
- 6 units - From Ecology 417, 419, 425, 429, 439
- 6 units - From Biology 505, 507, 528, 591; Biochemistry 507, 528; Cellular, Molecular and Microbial Biology 505, 507, 519, 528, 549, 563; Ecology 507, 528; Plant Biology 507, 528, 541; Zoology 507, 528, 571, 567, 576, 595

#### Concentration in Biotechnology

##### Earn at least 27 credits from the following:

- 3 units - Cellular, Molecular and Microbial Biology 343
- 3 units - Entrepreneurship and Innovation 201
- 3 units - From Biology 315 or Medical Science 301
- 3 units - Biochemistry 561
- 9 units - From Biochemistry 431, 443, 541, 543; Biology 501, 503, 505; Cellular, Molecular and Microbial Biology 411, 421, 443, 461, 523; Plant Biology 401, 421
- 6 units - From Biology 507, 528; Biochemistry 507, 528, 547; Cellular, Molecular and Microbial Biology 507, 528, 543, 545, 563; or Chemical Engineering 535

#### Concentration in Genetics and Evolution

##### Earn at least 27 credits from the following:

- 6 units - Biology 315 and 401
- 3 units - Cellular, Molecular and Microbial Biology 411

- 6 units - From Cellular, Molecular and Microbial Biology 343, 421; Plant Biology 327; Zoology 401, 403, 435
- 6 units - From Cellular, Molecular and Microbial Biology 403, 413, 461; Plant Biology 543; Ecology 529
- 6 units - From Biology 505, 507, 528, 591; Biochemistry 507, 528; Cellular, Molecular and Microbial Biology 505, 507, 519, 528, 549, 563; Ecology 507, 528; Plant Biology 507, 528, 541; Zoology 507, 528, 571, 567, 576, 595

**Additional Comments:**

## Program Sequence

**Type**

Completion Requirement

**Additional Comments:**

### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts linked below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

### Recommended Program Sequence for the BSc Honours in Biological Sciences

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

**Type**

Completion Requirement

### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Arts and Science Honours Academy
- Embedded Certificates

**Additional Comments:**

## Overview

# UCalgary

## General Program Information

### Specializations:

- Biochemistry
- Biophysical Chemistry
- Cell Biology
- Developmental Biology
- Ecology
- Environmental Microbiology
- Evolutionary Biology
- Molecular Microbiology
- Physiology
- Structural Biology
- Host-Pathogen Interactions
- Energy&Env

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/biological-sciences/future-students/graduate/programs>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/biological-sciences-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies admission requirements and the Faculty of Science requirements, the Department requires:

- A minimum grade point average of 3.20 on a four-point scale during the last two full years or equivalent.
- For students required to provide proof of proficiency in English: a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; a CAEL score of 70 (with a minimum of 70 in each component); a Duolingo score of 145 (with no subscore below 125); or a Cambridge Proficiency score of 105. This requirement can also be met by completing the Academic Communication Certificate (<https://ucalgary.ca/esl/acc>) with a minimum grade of "A-" in each course.
- A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- Three academic reference letters and the required reference form.

Exceptional students may apply to a PhD program without an MSc recognized by the Faculty of Graduate Studies. In such cases, requirements in addition to those outlined above include: a four-year BSc or equivalent degree from a recognized institution with a minimum GPA of 3.60 (four-point scale) during the last two full years; and a full-year research project with a minimum grade of 3.70.

Transfer from a MSc to a PhD program is allowed for students who have successfully completed all courses required for the MSc degree, and who have demonstrated outstanding research ability and potential to their Supervisory Committee. Normally, evidence of this ability will include, but not be limited to, a grade point average of 3.60 for the courses completed during the MSc program.

## Program Details

### Simple Requisites

<b>Program/Course Requirements</b> Type
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## Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and the Faculty of Science requirements, the Department requires:

- a) Completion of a minimum of 6 units for both the Master of Science and doctoral programs. Students transferring from the MSc program to the PhD program will be required to take a minimum of 3 units in addition to work already completed. Please note that graduate courses must be chosen in consultation with the supervisor and approved by the Graduate Program Director. Course requirements may include courses offered by other Departments.
- b) Completion of the appropriate number of **Biology 601** Research Seminar courses in addition to (a) above.
- c) Presentation of a Departmental Pre-Defence seminar on the results of the thesis research.

### Transfer from the Master of Science to the doctoral program

A request to transfer from the Master of Science program to the doctoral program may be made no later than twenty-four months after initial registration. Students who transfer will be required to take one additional 3-unit course, regardless of course work completed before the transfer, and are expected to meet the 36-month deadline for completion of candidacy requirements.

## Additional Comments:

## Additional Program Information

### Type

Completion Requirement

## Additional Comments:

## Flexible Grade Option (CG Grade)

Students admitted to the Department of Biological Sciences will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At least one-half of a graduate student's coursework must be at the 600 level or higher.

Only when appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses. Courses below the 500 level will not be accepted for graduate credit.

## Time Limit

Expected completion time is two years for the Master of Science degree. Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

## Additional Comments:

## Supervisory Assignments

Applicants must contact faculty members directly regarding supervision of their graduate program, prior to submitting an application. The Department does not accept students unless at least one faculty member has indicated a willingness to act as supervisor. For the MSc program, the supervisor, in consultation with the student, selects a Supervisory Committee consisting

of the supervisor and at least two other faculty members whose research experience will be beneficial to the student's graduate program.

## Research Proposal

Master of Science students must present a written research proposal to their supervisory committee no later than six months after initial registration in program.

## Thesis Examinations

Final Thesis Examinations are required at both the Master of Science and doctoral level. In addition to the Faculty of Graduate Studies [regulations](#), the Department has the following requirements:

A public "Exit" Seminar preceding the examination is required.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for the Open Scholarship Competition must submit their scholarship applications to the Department of Biological Sciences by the appropriate deadline. Please contact <mailto:sci.grad@ucalgary.ca> for further information.

## Overview

### General Program Information

#### Specializations:

- Biochemistry
- Biophysical Chemistry
- Cell Biology
- Developmental Biology
- Ecology
- Environmental Microbiology
- Evolutionary Biology
- Molecular Microbiology
- Physiology
- Structural Biology
- Host-Pathogen Interactions
- [Energy&Env](#)

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/biological-sciences/future-students/graduate/programs>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/biological-sciences-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies' [admission](#) requirements and Faculty of Science requirements, the Department requires:

- a) A minimum grade point average of 3.20 on a four-point scale during the last two full years or equivalent.
- b) For students required to provide proof of proficiency in English: a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; a CAEL score of 70 (with a minimum of 70 in each component); a Duolingo score of 145 (with no subscore below 125); or a Cambridge Proficiency score of 105. This requirement can also be met by completing the Academic Communication Certificate (<https://ucalgary.ca/esl/acc>) with a minimum grade of "A-" in each course.
- c) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- d) Three academic reference letters and the required reference form.

Exceptional students may apply to a PhD program without an MSc recognized by the Faculty of Graduate Studies. In such cases, requirements in addition to those outlined above include: a four-year BSc or equivalent degree from a recognized institution with a minimum GPA of 3.60 (four-point scale) during the last two full years; and a full-year research project with a minimum grade of 3.70.

Transfer from a MSc to a PhD program is allowed for students who have successfully completed all courses required for the MSc degree, and who have demonstrated outstanding research ability and potential to their Supervisory Committee. Normally, evidence of this ability will include, but not be limited to, a grade point average of 3.60 for the courses completed during the MSc program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

- a) Completion of a minimum of 6 units for both the Master of Science and doctoral programs. Students transferring from the MSc program to the PhD program will be required to take a minimum of 3 units in addition to work already completed. Please note that graduate courses must be chosen in consultation with the supervisor and approved by the Graduate Program Director. Course requirements may include courses offered by other Departments.
- b) Completion of the appropriate number of Biology 601 Research Seminar courses in addition to (a) above.
- c) Presentation of a Departmental Pre-Defence seminar on the results of the thesis research.

Transfer from the Master of Science to the doctoral program

A request to transfer from the Master of Science program to the doctoral program may be made no later than twenty-four months after initial registration. Students who transfer will be required to take one additional 3-unit course, regardless of course work completed before the transfer, and are expected to meet the 36-month deadline for completion of candidacy requirements.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Biological Sciences will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

At least one-half of a graduate student's coursework must be at the 600 level or higher.

Only when appropriate to a student's program may graduate credit be received for courses numbered 500-599, which are considered undergraduate courses. Courses below the 500 level will not be accepted for graduate credit.

### Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

#### Supervisory Assignments

Applicants must contact faculty members directly regarding supervision of their graduate program, prior to submitting an application. The Department does not accept students unless at least one faculty member has indicated a willingness to act as supervisor. For the PhD program, the supervisor, in consultation with the student, selects a Supervisory Committee consisting of the supervisor and at least two other faculty members whose research experience will be beneficial to the student's graduate program.

#### Research Proposal

Doctoral students must complete a written thesis proposal no later than twelve months after initial registration in the program. The proposal will be evaluated in a supervisory committee meeting. See **handbook** for further information about the proposal requirements and evaluation process.

#### Required Examinations

**Candidacy**

Doctoral students must pass oral and written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see **handbook**.

**Thesis Examinations**

Final Thesis Examinations are required at both the Master of Science and doctoral level. In addition to the Faculty of Graduate Studies **regulations**, the Department has the following requirements:

A public "Exit" Seminar preceding the examination is required.

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for the Open Scholarship Competition must submit their scholarship applications to the Department of Biological Sciences by the appropriate deadline. Please contact <mailto:sci.grad@ucalgary.ca> for further information.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Biostatistics at the master's and doctoral levels through the following Faculties and graduate programs:

- Cumming School of Medicine; Community Health Sciences
- Faculty of Science; Mathematics and Statistics

The student will receive the degree offered by the home program:

- [MTSTMSCT](#)
- [MDCHMSCT](#)
- [MTST PhD](#)
- [MDCHPHD](#)

### Department of Mathematics and Statistics:

Location: Math Sciences Building, Room 462

Program number: 403.220.6299

Fax: 403.282.5150

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

### Department of Community Health Sciences:

Location: Health Sciences Centre, Room G345C

Program number: 403.210.7051

Fax: 403.210.8109

Email address: <mailto:chsgrad@ucalgary.ca>

Web page URL: [https://cumming.ucalgary.ca/gse/about/programs/community-health-sciences#quickset-field\\_collection\\_quicktabs\\_1](https://cumming.ucalgary.ca/gse/about/programs/community-health-sciences#quickset-field_collection_quicktabs_1)

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Biostatistics Specialization are those of the home graduate program:

- [MTSTMSCT](#)

- [MDCHMSCT](#)
- [MTST PhD](#)
- [MDCHPHD](#)

In addition to the [admission](#) requirements of the Faculty of Graduate Studies and home program requirements, all applicants must meet the following requirements:

- In the case of the MSc Biostatistics Specialization, a bachelor's degree in statistics, or its equivalent, is usually required.
- In the case of the PhD Biostatistics Specialization, a master's degree in statistics, or its equivalent, is usually required.
- Students must also have a letter from a faculty member in the home program indicating an agreement to supervise the applicant. Students are strongly encouraged to approach potential supervisors in advance of applying for entry into the home program and Biostatistics specialization.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and home program requirements, the Specialization requires:

**MSc and PhD students complete:**

**Complete ALL of the following Courses:**

- MDCH600 - Introduction to Community Health Sciences  
**AND** MDCH640 - Fundamentals of Epidemiology  
**AND** STAT721 - Statistical Inference  
**AND** BIST600 - Research Seminar

PhD students must also complete [STAT641 Statistical Learning](#) or [STAT631 Computational Statistics](#).

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List A Epidemiology and Health

Relevant topics courses and directed study courses (e.g., [MDCH710 Adv Topics in Biostatistics](#)), and courses from other programs, may be approved by the graduate program director in consultation with the supervisor.

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List B Biostatistics/Statistics

Relevant topics courses and directed study courses (e.g. [STAT601 Topics Probability&Statistics](#)), and courses from other programs, may be approved by the graduate program director in consultation with the supervisor.

**Earn at least 3 credits from the following:**

- Biostatistics Interdisciplinary Specialization, List A Epidemiology and Health  
**OR** Biostatistics Interdisciplinary Specialization, List B Biostatistics/Statistics

#### Additional Comments:

In addition, PhD students in the Mathematics and Statistics program must pass two Preliminary Examinations in Statistics based on material for two of the following courses: [STAT701 Theory of Probability I](#), [STAT721 Statistical Inference](#), [STAT631 Computational Statistics](#), [STAT635 Generalized Linear Models](#), [STAT641 Statistical Learning](#).

N.B. PhD required courses (or equivalents) are based on courses taken across graduate studies; i.e., if the student has taken equivalent courses in an MSc program, they are not required to retake these courses.

Students in the Community Health Sciences program must attend all CHS departmental seminars.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant should make requests for advanced credit at the time of application, as part of the admissions process. See [Advanced Credit](#) for further information.

## Credit for Undergraduate Courses

See requirements of home program.

## Flexible Grade Option (CG Grade)

See requirements of home program.

## Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

The maximum completion time allowed for a thesis-based master's program is four years. The maximum completion time allowed for a doctoral program is six years.

## Supervisory Assignments and Required Examinations

See requirements of home program and the Faculty of Graduate Studies academic regulations.

## Faculty Members / Research Interests

Faculty members associated with the Biostatistics specialization have wide-ranging research interests. See the [Biostatistics webpage](#) for more information.

Research topics for thesis-based MSc and PhD applicants should be decided in discussion with supervisors.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

See home program.

## Overview

### General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5224

# UCalgary

Fax: 403.284.1372

Website: [science.ucalgary.ca/chemistry](http://science.ucalgary.ca/chemistry)

Email: [chem.info@ucalgary.ca](mailto:chem.info@ucalgary.ca)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs

Due to limited enrolment capacity in many senior courses in which there is a laboratory component, the Chemistry programs have a maximum capacity. For details on entry to the programs, see [Faculty Regulations](#).

### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Chemistry is limited by laboratory space or other pedagogical considerations.

Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in Chemistry courses.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

#### Departmental vs. Faculty Regulations

Programs in the Department of Chemistry are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Courses Constituting the Field of Chemistry

### Type

Completion Requirement

#### Courses Constituting the Field of Chemistry

Students must successfully complete a minimum of 57 units to a maximum of 66 units in Courses Constituting the Field of Chemistry while fulfilling the Program Requirements.

**Earn at least 57 credits from the following:**

- Courses Constituting the Field of Chemistry

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Program

**Earn at least 66 credits from the following:**

- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - Physics 211 or 221; and 223
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 36 units - Chemistry 311, 315, 351, 353, 371, 373, 431, 433, 453, 471; 531 or 533; Biochemistry 341 or 393
- 3 units - Physics 323 or 355
- 3 units - Mathematics 211 or 213
- 3 units - Statistics 327 or 205
- 3 units - Science 311

#### Required Options - Major Program

**Earn at least 54 credits from the following:**

- 6 units - From the Field of Chemistry at the 300 level or above
- 9 units - From the Field of Chemistry at the 500 level or above
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 15 units - Non-Major Field Requirement: Options that are not in the Field of Chemistry
- 9 units - Options

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

**Additional Comments:**

#### Recommended Program Sequence for the BSc in Chemistry

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5224

**Fax:** 403.284.1372

**Website:** [science.ucalgary.ca/chemistry](http://science.ucalgary.ca/chemistry)

**Email:** [chem.info@ucalgary.ca](mailto:chem.info@ucalgary.ca)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs

Due to limited enrolment capacity in many senior courses in which there is a laboratory component, the Chemistry programs have a maximum capacity. For details on entry to the programs, see [Faculty Regulations](#).

### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Chemistry is limited by laboratory space or other pedagogical considerations.

Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in Chemistry courses.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Departmental vs. Faculty Regulations

Programs in the Department of Chemistry are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Courses Constituting the Field of Chemistry

##### Type

Completion Requirement

#### Courses Constituting the Field of Chemistry

Students must successfully complete a minimum of 66 units to a maximum of 78 units in Courses Constituting the Field of Chemistry while fulfilling the following requirements:

**Earn at least 66 credits from the following:**

- Courses Constituting the Field of Chemistry

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Required Courses - Honours Chemistry

**Earn at least 72 credits from the following:**

- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - Physics 211 or 221 or 227; and 223
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 42 units - Chemistry 311, 315, 351, 353, 371, 373, 431, 433, 453, 471, 502; 531 or 533; Biochemistry 341 or 393

- 3 units - Physics 323 or 355
- 3 units - Mathematics 211 or 213
- 3 units - Statistics 327 or 205
- 3 units - Science 311

## Required Options - Honours Chemistry

Earn at least 48 credits from the following:

- 6 units - From the Field of Chemistry at the 300 level or above
- 12 units - From the Field of Chemistry at the 500 level or above
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 3 units - Non-Major Field Requirement: Options outside of the Field of Chemistry
- 12 units - Options

## Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

#### Recommended Program Sequences for the BSc Honours in Chemistry

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

## Additional Comments:

## Overview

# UCalgary

## General Program Information

The MSc program is available for full-time study only.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.chem.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students [website](#).

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- a) A four-year degree or its equivalent.
- b) An admission grade point average of 3.00 or better on a four-point scale.
- c) Two reference letters.

An appropriate letter of recommendation is one written by an individual who can provide an assessment of the applicant's background and capabilities with respect to our department. An applicant currently registered in a graduate degree program, or who has recently completed a graduate degree program, must request one letter of reference from their program supervisor.

d) For applicants required to prove proficiency in English: a minimum TOEFL score of 97 (Internet-based test), or an IELTS score of 7.0, or a PTE score of 68.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

- 7 units at the 500 level or above:
  - a minimum of 3 units will be Chemistry courses;
  - **CHEM654 Teaching and Mentoring in Chem**;
  - 3 units of electives (Chemistry or other Faculty/Department)

#### Additional Requirements

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

**Advanced Credit** for graduate courses taken as an unclassified student, or qualifying student may be given for courses in which the student obtains a grade of "B" or higher.

A reduction in course requirements may be given for students who completed graduate courses at other institutions. This will be determined on program entry and after consultation with the research supervisor and the graduate office.

## Flexible Grade Option (CG Grade)

The Department of Chemistry will allow students to pursue the **Flexible Grade Option (CG Grade)** with the exception of **Chemistry 601** and **603**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At least one-half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program will graduate credit be given for courses numbered 500-599, which are considered undergraduate courses. In addition to course prerequisites, consent of the department is required.

## Time Limit

Expected completion time is two years for the Master of Science degree. Maximum completion time is four years.

### Supervisory Assignments and Thesis Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students are assigned an interim advisor (currently the Graduate Director) upon first registration in a program and must choose a permanent supervisor before the fifth month in program. Students must also choose two additional faculty members to serve as supervisory committee members.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Department requires:

#### *Scheduling of the Examination*

Before an examination can be scheduled, all members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is normally available to all qualified students in the form of Teaching Assistantships and Trust funded Assistantships. Assistantship funding is not normally available beyond twenty-eight months in a master's program.

For further information on awards, see the **Awards and Financial Assistance** section of this calendar.

## Overview

### General Program Information

The PhD program is available for full-time study only.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.chem.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/chemistry-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

a) Two reference letters.

An appropriate letter of recommendation is one written by an individual who can provide an assessment of the applicant's background and capabilities with respect to our department. An applicant currently registered in a graduate degree program, or who has recently completed a graduate degree program, must request one letter of reference from their program supervisor.

b) For applicants required to prove proficiency in English: a minimum TOEFL score of 97 (Internet-based test), or an IELTS score of 7.0, or a PTE score of 68.

#### For applicants with a Bachelor of Science (BSc) degree:

a) A four-year Honours degree or its equivalent.

b) An admission grade point average of 3.70 or better on a four-point scale.

#### For applicants with a Master of Science (MSc) degree:

a) A Master of Science degree recognized by the Faculty of Graduate Studies.

b) An admission grade point average of 3.30 or better on a four-point scale.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

For students entering with a four-year Honours BSc degree or equivalent:

- 10 units at the 500 level or above:
  - a minimum of 6 units will be Chemistry courses;
  - **CHEM654 Teaching and Mentoring in Chem**;
  - 3 units of electives (Chemistry or other Faculty/Department).

For students entering with an MSc degree or equivalent.

- A minimum of 3 units and a maximum of 10 units. At the discretion of the Graduate Program Director, the number of courses will be determined by consultation between the student, the supervisor, and the Graduate Director.

Students who transfer to the doctoral program will be given credit for courses taken in the MSc program.

## Copyediting

The department does not allow copyediting in students' theses.

## Additional Requirements

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Advanced Credit for graduate courses taken as an unclassified student, or qualifying student may be given for courses in which the student obtains a grade of "B" or higher.

A reduction in course requirements may be given for students who completed graduate courses at other institutions. This will be determined on program entry and after consultation with the research supervisor and the graduate office.

## Flexible Grade Option (CG Grade)

The Department of Chemistry will allow students to pursue the Flexible Grade Option (CG Grade) with the exception of Chemistry 601 and 603.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At least one-half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program will graduate credit be given for courses numbered 500-599, which are considered undergraduate courses. In addition to course prerequisites, consent of the department is required.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are assigned an interim advisor (currently the Graduate Director) upon first registration in a program and must choose a permanent supervisor before the fifth month in program. Students must also choose two additional faculty members to serve as supervisory committee members.

## Required Examinations

### Candidacy

All doctoral students must successfully complete a written thesis research proposal that is evaluated and approved by the Candidacy Field of Study Oral Examination committee.

Doctoral students are required to complete written and oral candidacy examinations. Further details may be obtained from the Department's Handbook of Graduate Studies available

at: [http://www.ucalgary.ca/chem/graduate/current\\_students/grad\\_students\\_handbook](http://www.ucalgary.ca/chem/graduate/current_students/grad_students_handbook).

The oral examination component will include questions on the research proposal.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

Before an examination can be scheduled, all members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is normally available to all qualified students in the form of Teaching Assistantships and Trust funded Assistantships. Assistantship funding is not normally available beyond fifty-two months in a doctoral program.

For further information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

## Overview

### General Program Information

### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon

academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

Directly from High School (see Section [3.2](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.

Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.

From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

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### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca](http://acat.alberta.ca).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements

- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [3. Faculty of Science Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

### Courses Constituting the Field of Cellular, Molecular and Microbial Biology

#### Type

Completion Requirement

#### Courses Constituting the Field of Cellular, Molecular and Microbial Biology

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Cellular, Molecular and Microbial Biology while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Cellular, Molecular and Microbial Biology

## Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - Major Program

#### Earn at least 48 credits from the following:

- 15 units - Biology 241, 243, 311, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Cellular, Molecular and Microbial Biology 343
- 6 units - Chemistry 351 and 353
- 3 units - Biochemistry 431 or 443

- 6 units - Cellular, Molecular and Microbial Biology 411, 527

#### Required Options - Major Program

##### Earn at least 72 credits from the following:

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 12 units - Cell Biology Emphasis or Microbiology Emphasis
- 6 units - Options from the Field of Cellular, Molecular and Microbial Biology
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 12 units - Non-Major Field Requirement: Options that are not in the Field of Cellular, Molecular and Microbial Biology
- 18 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

##### Recommended Program Sequence for the BSc in Cellular, Molecular and Microbial Biology

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences

- Embedded Certificates

Additional Comments:

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

Directly from High School (see Section [3.2 Admission](#)) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.

From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.

Subject to the Honours qualifications set out in Subsection [3.2– Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.

From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after

## UCalgary

their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.

Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca](http://acat.alberta.ca).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree , refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is **essential** for students to be familiar with **both** sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their **Student Centre** periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the **Undergraduate Science Centre (USC)** at all stages of their program.

## Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

## Courses Constituting the Field of Cellular, Molecular and Microbial Biology

### Type

Completion Requirement

#### Courses Constituting the Field of Cellular, Molecular and Microbial Biology

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Cellular, Molecular and Microbial Biology while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Cellular, Molecular and Microbial Biology

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

#### Earn at least 57 credits from the following:

- 15 units - Biology 241, 243, 311, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Cellular, Molecular and Microbial Biology 343
- 6 units - Chemistry 351 and 353
- 3 units - Biochemistry 431 or 443
- 6 units - Cellular, Molecular and Microbial Biology 411, 527
- 3 units - Cellular, Molecular and Microbial Biology 451
- 6 units - Cellular, Molecular and Microbial Biology 530

#### Required Options - Honours Program

#### Earn at least 63 credits from the following:

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 12 units - Cell Biology Emphasis or Microbiology Emphasis
- 3 units - Options from the Field of Cellular, Molecular and Microbial Biology at the 500 level
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 24 units - Options

## Additional Comments:

### Program Sequence

#### Type

Completion Requirement

## Additional Comments:

### First and Second Year Course Selection Submit

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

### Recommended Program Sequence for the BSc Honours in Cellular, Molecular and Microbial Biology

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Faculty of Science - Second Degree Programs
- Double Major in the Department of Biological Sciences
- Arts and Science Honours Academy
- Embedded Certificates

## Additional Comments:

## Overview

### General Program Information

The MSc is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the MSc program as part-time students only with permission from the CMD Advisory Committee.

## Specializations:

- [Wearable T](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-master-science-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- A curriculum vitae.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

15 units of coursework:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;

- 3-unit Computer Science graduate-level course;
- 3-unit graduate-level course chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music; and
- Two 3-unit graduate-level courses.

Additional courses may be required on a case-by-case basis as determined by the Supervisor and CMD Director.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

### Time Limit

Expected completion time is two years for the MSc, and maximum completion time is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to

the student, supported by the supervisors and approved by the CMD Director.

## Thesis Examination

In addition to the Faculty of Graduate Studies [thesis requirements](#), the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

### General Program Information

The PhD is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the PhD program as part-time students only with permission from the CMD Advisory Committee.

### Specializations:

- [Wearable T](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- a) While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- b) A master's degree from an accredited/recognized institution.
- c) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- e) Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- f) A curriculum vitae.
- g) Two reference letters.

For exceptional students applying directly to the PhD program with only a bachelor's degree, all the requirements for a Master of Science apply, plus a demonstrated exceptional research and/or creative ability. These direct entry students will be considered on a case-by-case basis.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

Doctoral students must complete at least three graduate-level courses (9 units) while enrolled as a PhD student in Computational Media Design at the University of Calgary.

As agreed upon between the student and supervisory committee, breadth\* courses may be required as follows:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 6 units of Computer Science graduate-level courses;
- 6 units of graduate-level courses chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music.

\*Alternative breadth courses that satisfy the student, the supervisor(s), the supervisory committee, and the CMD Director may be proposed in special cases.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

### Time Limit

Expected completion time for doctoral students entering with a master's degree is four years; maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

Doctoral Supervisory Committee: The Doctoral Supervisory Committee should be constituted by the supervisor and co-supervisor in consultation with the student and must be approved by the CMD Director and sent to the Faculty of Graduate

Studies for confirmation. It will consist of the supervisor and co-supervisor, and two additional members. The two additional committee members may be external to the student's program. At least one of the members of the Supervisory Committee should have had supervisory experience at the doctoral level.

## Candidacy

In addition to the Faculty of Graduate Studies [candidacy requirements](#), the program requires:

Doctoral students must complete a written thesis proposal, a written field of study examination, and an oral examination of the thesis proposal. For complete details of the requirements, see the CMD candidacy requirements document available at <https://science.ucalgary.ca/computational-media-design/current-students/degree-requirements>.

## Thesis Examination

In addition to the Faculty of Graduate Studies [thesis requirements](#), the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

The CMD PhD student's External Examiner will be an international expert in the research/creative practice area of the student's research. Faculty of Graduate Studies Conflict of Interest Policy applies (see <https://grad.ucalgary.ca/current-students/thesis-based-students/supervision/conflict-interest>).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Computational Neuroscience in the following faculties and graduate programs:

- Cumming School of Medicine, Neuroscience

## UCalgary

- Department of Computer Science
- Faculty of Arts, Psychology
- Faculty of Science, Physics and Astronomy
- Graduate Program in Biomedical Engineering

The specialization is offered at the MSc (thesis-based) and PhD levels.

Location: ACH B4-514

Faculty Number: 403-955-7389

Fax: 403-955-2772

E-mail address: <mailto:slbray@ucalgary.ca>

Web page URL: <https://hbi.ucalgary.ca/computational-neuroscience/graduate-specialization/about-program>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Computational Neuroscience specialization are those of the home graduate program:

- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Neuro](#)
- [PHD Neuroc](#)
- [MSCT Physi](#)
- [PHD Physic](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Admission into a graduate program that offers the interdisciplinary specialization and the submission and approval of a written request to the specialization director to join the specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

##### Additional Comments:

In addition to the [requirements](#) of the Faculty of Graduate Studies and the home program:

#### **MSc students are required to complete:**

- [MDSC628 Intro Computational Neuroscien\\*](#); plus
- a minimum of 3 units of courses from the Neuroscience Series (see below).

#### **PhD students are required to complete:**

- [MDSC628 Intro Computational Neuroscien\\*](#); plus

- a minimum of 3 additional units of courses from the Computational Series (see below); and
- a minimum of 6 units of courses from the Neuroscience Series (see below).

\*Medical Science 628 (Introduction to Computational Neuroscience) is expected to be completed unless approval is received from the Computational Neuroscience program oversight committee to substitute another Computational Series course.

COMPUTATIONAL SERIES			NEUROSCIENCE SERIES
BMEN515 Bioeng Methods in Sys & Physio	MATH685 Stochastic Processes	PHYS521 Non-linear Dynamics and Chaos	MDSC619.01 Cellular,MolecularNeuroscience
BMEN619 Advanced Topics in BMEN	MDSC605 (Cpsc605)InfoStoreProcBioSys	PHYS581 Computational Physics III	MDSC619.02 Sys Neuroscience & Neuropath
CPSC607 Biological Computation	MDSC689.01 Medical Imaging Techniques	PHYS605 Advanced Data Analysis	MDSC622 Neurobiology of Mental Illness
CPSC635 ImageAnalysis&ComputerVision	MDSC689.02 Adv Magnetic Resonance Imaging	PHYS619 Statistical Physics II	MDSC624 Neuroanatomy
MATH605 Differential Equations III	MDSC689.03 Adv Medical Image Processing	PHYS621 Nonlinear Dyn & Patt Formation	PSYC620 Adv Topics Brain & Cog Science
MATH661.05 Numerical Differential Eqtn's	MDSC689.11 Medical Imaging Applications	PSYC613 Signal/Syst Analy Behave Rsrch	PSYC623 Functional Neuroanatomy
MATH669.01 Wavelet Analysis	MDSC689.99 Medical Imaging Project	PSYC615 Analysis of Variance	PSYC625 Clinical Neuropsychology
MATH669.03 Mathematical Biology	MDSC755 Directed Study	PSYC617 Multivariate Data Analysis	

Note: Other course options may be available with approval from the Program Oversight Committee.

All students are expected to participate in a Computational Neuroscience journal club. Students will also be expected to attend relevant seminars and present their work at a work-in-progress seminar series during their degree.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant should make requests for Advanced Credit at the time of application, as part of the admissions process. Credit may be granted for appropriate courses to count towards the specialization with approval of the Computational Neuroscience program.

### Credit for Undergraduate Courses

Credit will not be given for undergraduate or 500-level courses.

### Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see Time Limits).

### Supervisory Assignments and Required Examinations

See requirements of home program:

- MSCT Biome
- PHD Biomed
- MSCT Compu

- [PHD Comput](#)
- [MSCT Neuro](#)
- [PHD Neuroc](#)
- [MSCT Physi](#)
- [PHD Physic](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The BA program in Computer Science is undergoing review. Students interested in this program should seek advice from a program advisor in the Undergraduate Science Centre. Many options for diversifying a BSc in Computer Science are available to students.

Department Office: Information & Communications Technologies (ICT) 602

Student enquiries: 403.220.8600

Website: [science.ucalgary.ca/computer-science](http://science.ucalgary.ca/computer-science)

## Admissions

### Program Admissions Information

The BA program in Computer Science is undergoing review. Students interested in this program should seek advice from a program advisor in the Undergraduate Science Centre. Many options for diversifying a BSc in Computer Science are available to students.

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

## Additional Comments:

### Department vs. Faculty Regulations

Programs in the Department of Computer Science are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) and the Department at all stages of their program.

### First Courses in Computer Science

The Department of Computer Science offers the following courses for students who are interested in an introduction to the discipline of computer science or who wish to use computers more effectively. Each of Computer Science 217, 231 and 235 is intended primarily for a group of students (with differing academic objectives) who are interested in an introduction to computer science that includes an introduction to programming and that is available for credit in computer science programs. The pace at which programming concepts are introduced also differs in each course.

- Computer Science 217 is recommended for students wishing to combine studies in computer science with studies in other disciplines, or who are in programs other than computer science and who are interested in a course that includes an introduction to programming. Material related to computer science will be introduced at a pace that is appropriate for students who are unfamiliar with programming or scripting. Upon completion of Computer Science 217, students who are interested in computer science programs would continue by taking Computer Science 219. The latter course includes additional lectures in order to ensure that students in this course sequence are adequately prepared for senior courses in computer science.
- Computer Science 231 is recommended for computer science majors. Material related to computer science will be introduced at a somewhat faster pace than in Computer Science 217. Upon completion of Computer Science 231, students who are interested in computer science programs would continue by taking Computer Science 233.
- Computer Science 235 is a challenging course intended for exceptional students. This course also includes an introduction to programming and it can be used in place of either Computer Science 217 and 219 or Computer Science 231 and 233 in the requirements for computer science programs. Students completing Computer Science 235 will have additional flexibility when choosing options in computer science and may be able to complete courses that are required for computer science programs more rapidly than would otherwise be possible.
- Computer Science 203 is recommended for students who are not in computer science programs and who are interested in a course that introduces computer system fundamentals and tools, including spreadsheets, and database applications. This course generally does not include an extensive introduction to programming and it is not available for registration for computer science majors or minors.
- Students that have completed Data Science 211 and wish to pursue a Computer Science Degree should take Computer Science 219.

### Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

## Courses Constituting the Field of Computer Science

### Type

Completion Requirement

#### Courses Constituting the Field of Computer Science

Students must successfully complete a minimum of 51 units, to a maximum of 66 units, in Courses Constituting the Field of Computer Science while fulfilling the Program Requirements.

**Earn at least 51 credits from the following:**

- Courses Constituting the Field of Computer Science

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - BA Major Program

Complete one of the following three sets of courses:

**Earn at least 6 credits from the following:**

- Computer Science 231 and 233
- Computer Science 217 or Data Science 211, and Computer Science 219
- Computer Science 235 and 3 units from the Field of Computer Science at the 300 level or above

#### Required Courses - BA Major Program

**Earn at least 36 credits from the following:**

- 18 units - Computer Science 251, 331(1), 355, 441, 449, and 481
- Software Engineering 300
- 6 units - One of Mathematics 211 or 213; one of Mathematics 249 or 265 or 275
- 6 units - Logic Requirement: One of Philosophy 279 or 377 and 379
- 3 units - Ethics Requirement: Philosophy 314

*(1) Students who have completed **Computer Science 319** prior to admission to a program in Computer Science may use this course in lieu of **Computer Science 331** as a program requirement. Students with Computer 319 will be required to complete a non-credit, on-line course in order to be qualified for senior courses in theoretical computer science.*

#### Required Options - Major Program

**Complete ALL of the following Requirement Sets:**

- 6 units - From the Field of Computer Science at the 300 level or above
- 12 units - From the Field of Computer Science at the 400 level or above
- 6 units - From the Field of Computer Science at the 500 level or above
- 9 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 30 units - Non-Major Field Requirement: Options that are not in the Field of Computer Science
- 15 units - Options

## Additional Comments:

### Concentrations

#### Type

#### Completion Requirement

##### Concentrations

Students may focus their program on one of nine areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

##### Complete ANY of the following Requirement Sets:

- A. Concentration in Computer Game Development
- B. Concentration in Software Engineering
- C. Concentration in Theoretical Computer Science
- D. Concentration in Scientific Computation
- E. Concentration in Human-Computer Interactions
- F. Concentration in Computer Graphics
- G. Concentration in Information Security
- H. Concentration in Networks and Distributed Computing
- I. Concentration in Visualization and Analytics

## Additional Comments:

### Degree Options

#### Type

#### Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

## Additional Comments:

## Overview

### General Program Information

**Department Office:** Information & Communications Technologies (ICT) 602

**Student enquiries:** 403.220.8600

**Website:** [science.ucalgary.ca/computer-science](http://science.ucalgary.ca/computer-science)

### Admissions

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Computer Science are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### First Courses in Computer Science

The Department of Computer Science offers the following courses for students who are interested in an introduction to the discipline of computer science or who wish to use computers more effectively. Each of Computer Science 217, 231 and 235 is intended primarily for a group of students (with differing academic objectives) who are interested in an introduction to computer science that includes an introduction to programming and that is available for credit in computer science programs. The pace at which programming concepts are introduced also differs in each course.

- Computer Science 217 is recommended for students wishing to combine studies in computer science with studies in other disciplines, or who are in programs other than computer science and who are interested in a course that includes an introduction to programming. Material related to computer science will be introduced at a pace that is appropriate for students who are unfamiliar with programming or scripting. Upon completion of Computer Science 217, students who are interested in computer science programs would continue by taking Computer Science 219. The latter course includes additional lectures in order to ensure that students in this course sequence are adequately prepared for senior courses in computer science.
- Computer Science 231 is recommended for computer science majors. Material related to computer science will be introduced at a somewhat faster pace than in Computer Science 217. Upon completion of Computer Science 231, students who are interested in computer science programs would continue by taking Computer Science 233.
- Computer Science 235 is a challenging course intended for exceptional students. This course also includes an introduction to programming and it can be used in place of either Computer Science 217 and 219 or Computer Science 231 and 233 in the requirements for computer science programs. Students completing Computer Science 235 will have additional flexibility when choosing options in computer science and may be able to complete courses that are required for computer science programs more rapidly than would otherwise be possible.
- Computer Science 203 is recommended for students who are not in computer science programs and who are interested in a course that introduces computer system fundamentals and tools, including spreadsheets, and database applications. This course generally does not include an extensive introduction to programming and it is not available for registration for computer science majors or minors.
- Students that have completed Data Science 211 and wish to pursue a Computer Science Degree should take Computer Science 219.

#### Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

#### Courses Constituting the Field of Computer Science

##### Type

##### Completion Requirement

##### Courses Constituting the Field of Computer Science

Students must successfully complete a minimum of 60 units, to a maximum of 66 units, in Courses Constituting the Field of Computer Science while fulfilling the Program Requirements.

##### Earn at least 60 credits from the following:

- All courses labelled Computer Science (CPSC) except Computer Science 203, 304, and 399.04
- Mathematics 318, 391, 493
- All courses labelled Software Engineering (SENG)
- Data Science 211 and 311

##### Additional Comments:

#### Program Requirements

##### Type

##### Completion Requirement

Required Courses - Major Program

Earn at least 6 credits from the following:

- Computer Science 231 and 233
- Computer Science 217 or Data Science 211 and Computer Science 219
- Computer Science 235 and 3 units from the Field of Computer Science at the 300 level or above

Required Options - Major Program

Earn at least 42 credits from the following:

- 21 units - Computer Science 251, 331, 351, 355, 413, 449 and 457
- 3 units - Software Engineering 300
- 6 units - One of Mathematics 211 or 213; one of Mathematics 249 or 265 or 275
- 3 units - Logic Requirement: Philosophy 279 or 377
- 3 units - Ethics Requirement: Philosophy 314

Required Options - Major Program

Earn at least 72 credits from the following:

- 9 units - From the Field of Computer Science at the 300 level or above
- 12 units - From the Field of Computer Science at the 400 level or above
- 9 units - From the Field of Computer Science at the 500 level or above
- 12 units - Breadth Requirement: Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 30 units - Non-Major Field Requirement: Options that are not in the Field of Computer Science
- 6 units - Options

Additional Comments:

## Concentrations

### Type

### Completion Requirement

#### Concentrations

Students may focus their program on one of nine areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

Complete ANY of the following Requirement Sets:

- A. Concentration in Computer Game Development
- B. Concentration in Software Engineering
- C. Concentration in Theoretical Computer Science
- D. Concentration in Scientific Computation
- E. Concentration in Human-Computer Interactions
- F. Concentration in Computer Graphics
- G. Concentration in Information Security
- H. Concentration in Networks and Distributed Computing
- I. Concentration in Visualization and Analytics

Additional Comments:

## Program Sequence

## Type

Completion Requirement

### Additional Comments:

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

**Department Office:** Information & Communications Technologies (ICT) 602

**Student enquiries:** 403.220.8600

**Website:** [science.ucalgary.ca/computer-science](http://science.ucalgary.ca/computer-science)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Computer Science are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

### First Courses in Computer Science

The Department of Computer Science offers the following courses for students who are interested in an introduction to the discipline of computer science or who wish to use computers more effectively. Each of Computer Science 217, 231 and 235 is intended primarily for a group of students (with differing academic objectives) who are interested in an introduction to computer science that includes an introduction to programming and that is available for credit in computer science programs. The pace at which programming concepts are introduced also differs in each course.

- Computer Science 217 is recommended for students wishing to combine studies in computer science with studies in other disciplines, or who are in programs other than computer science and who are interested in a course that includes an introduction to programming. Material related to computer science will be introduced at a pace that is appropriate for students who are unfamiliar with programming or scripting. Upon completion of Computer Science 217, students who are interested in computer science programs would continue by taking Computer Science 219. The latter course includes additional lectures in order to ensure that students in this course sequence are adequately prepared for senior courses in computer science.
- Computer Science 231 is recommended for computer science majors. Material related to computer science will be introduced at a somewhat faster pace than in Computer Science 217. Upon completion of Computer Science 231, students who are interested in computer science programs would continue by taking Computer Science 233.
- Computer Science 235 is a challenging course intended for exceptional students. This course also includes an introduction to programming and it can be used in place of either Computer Science 217 and 219 or Computer Science 231 and 233 in the requirements for computer science programs. Students completing Computer Science 235 will have additional flexibility when choosing options in computer science and may be able to complete courses that are required for computer science programs more rapidly than would otherwise be possible.
- Computer Science 203 is recommended for students who are not in computer science programs and who are interested in a course that introduces computer system fundamentals and tools, including spreadsheets, and database applications. This course generally does not include an extensive introduction to programming and it is not available for registration for computer science majors or minors.
- Students that have completed Data Science 211 and wish to pursue a Computer Science Degree should take Computer Science 219.

### Advanced Placement in Computer Science

Students in International Baccalaureate (IB) and Advanced Placement (AP) programs may be eligible for advanced credit in Computer Science courses, including Computer Science 217 and 219 or 231 and 233. See the Admissions section of this Calendar ([A.13 Transfer Credit/Advanced Standing](#)) for additional details.

Other students with backgrounds in Computer Science equivalent to Computer Science 231 or 231 and 233 may request advanced placement in Computer Science in order to have prerequisite requirements for these courses waived, after successful completion of an advanced placement examination. Interested students should see the Admissions section of this Calendar ([A.13.2 Advanced Placement \(AP\) Program](#)) for additional details, and contact the Department of Computer Science to apply.

## Courses Constituting the Field of Computer Science

### Type

Completion Requirement

#### Courses Constituting the Field of Computer Science

Students must successfully complete a minimum of 66 units, to a maximum of 78 units, in Courses Constituting the Field of Computer Science while fulfilling the Program Requirements.

**Earn at least 66 credits from the following:**

- Courses Constituting the Field of Computer Science

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

**Earn at least 6 credits from the following:**

- Computer Science 231 and 233
- Computer Science 217 or Data Science 211 and Computer Science 219
- Computer Science 235 and 3 units from the Field of Computer Science at the 300 level or above

#### Required Courses - Honours Program

**Earn at least 42 credits from the following:**

- 27 units - Computer Science 251, 331, 351, 355, 413, 449, 457 and 502
- 3 units - Software Engineering 300
- 6 units - One of Mathematics 211 or 213; one of Mathematics 249 or 265 or 275
- 3 units - Logic Requirement: Philosophy 279 or 377
- 3 units - Ethics Requirement: Philosophy 314

#### Required Options - Honours Program

**Earn at least 72 credits from the following:**

- 6 units - From the Field of Computer Science at the 300 level or above
- 9 units - From the Field of Computer Science at the 400 level or above
- 15 units - From the Field of Computer Science at the 500 level or above
- 12 units - Breadth Requirement: Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 18 units - Non-Major Field Options that are not in the Field of Computer Science
- 12 units - Options

## Additional Comments:

### Concentrations

#### Type

Completion Requirement

#### Concentrations

Students may focus their program on one of nine areas of interest by including a specified set of courses in their Major or Honours degree. Successful completion will mean that the area of concentration will appear on the transcript. The concentrations and course requirements are:

#### Complete ANY of the following Requirement Sets:

- A. Concentration in Computer Game Development
- B. Concentration in Software Engineering
- C. Concentration in Theoretical Computer Science
- D. Concentration in Scientific Computation
- E. Concentration in Human-Computer Interactions
- F. Concentration in Computer Graphics
- G. Concentration in Information Security
- H. Concentration in Networks and Distributed Computing
- I. Concentration in Visualization and Analytics

## Additional Comments:

### Program Sequence

#### Type

Completion Requirement

#### Additional Comments:

#### Recommended Program Sequence BSc Honours in Computer Science

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Additional Comments:

## Overview

### General Program Information

Students may register in the MSc program as part-time students only with permission from the Department.

### Specializations:

- **MSCT Comp**. The specialization is offered jointly through the Department of Computer Science and the Department of Electrical and Software Engineering.
- **Wearable T**
- **Comp Neuro**

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

For Information Security graduate programs, see:

**GCERT Data**

**GCERT Netw**

**GCERT Soft**

**Master of**

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/computer-science-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Science **admission requirements**, the Department requires:

a) An undergraduate background of either:

A four-year bachelor's degree or equivalent in Computer Science from a recognized institution with a minimum GPA of 3.30 in the last two years (i.e., last 60 units) of the undergraduate program

OR

A four-year bachelor's degree or equivalent from a recognized institution with a minimum GPA of 3.30 in the last two years (i.e., last 60 units) of the undergraduate program.

In addition, candidates must have an undergraduate course at the 3rd or 4th year level in each of the following computer science areas:

- Theory of Computation
- Software Engineering
- Systems (Operating Systems, Compilers, Distributed Systems, Networking)
- Application (Artificial Intelligence, Graphics, Databases, etc.)

The cumulative GPA for these courses must be at least 3.30.

Post-degree Computer Science courses may be considered in calculating the GPA. Exceptions to the GPA requirements may be considered for students with either:

- Demonstrated research excellence, or
- GRE General scores of at least 600 verbal and 750 quantitative and either 720 analytical (old test format) or 5.5 (new test format).

b) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.

c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

a) Course Requirements: **CPSC699 Research Methodology in Cpsc**, plus:

b) Twelve units of additional courses. A minimum of 6 units must be graduate-level computer science courses (labelled CPSC or SENG), excluding professional program courses, and a maximum of 3 units can be an undergraduate course that must be numbered at the 500 level.

It is recommended that students who are considering continuing on to a doctoral program or entering certain career paths, select courses that demonstrate some breadth across Computer Science (see [PHD Comput](#) Breadth Requirements for details).

c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Computer Science will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For MSc programs, at most 3 units at the 500 level may be taken as part of the course work requirement. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate. Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

## Time Limit

Expected completion time is two years for thesis-based Master of Science.

## Supervisory Assignments, Research Proposal, and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

## Research Proposal Requirements

At the master's level, research proposal requirements are determined by the supervisor.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [thesis examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## Overview

### General Program Information

Students may register in the PhD program as part-time students only with permission from the Department.

## Specializations:

- [Wearable T](#)
- [Comp Neuro](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

For Information Security graduate programs, see:

[GCERT Data](#)

[GCERT Netw](#)

[GCERT Soft](#)

[Master of](#)

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/computer-science-doctor-philosophy-thesis-based>.

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- A Master of Science, thesis-based degree from a recognized institution with a minimum GPA of 3.30. For exceptional students applying with a Bachelor of Science degree, a four-year Honours degree or its equivalent from a recognized institution with a minimum GPA of 3.70 and demonstrated research ability.
- All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.
- Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to the Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

- Course Requirements: Students will be required to have achieved at least a grade of "B-" in a minimum of 24 units beyond the requirements for an undergraduate degree before completion of the PhD degree. A minimum of 9 units of these must be taken while the student is enrolled as a PhD student in Computer Science at the University of Calgary. Of the 24 units, a minimum of 18 units must be graduate-level courses, excluding professional program courses, with the remaining 6 units being

either graduate-level courses or advanced (500-level) undergraduate courses. A minimum of 12 units of the required courses must be taken from a degree-granting Computer Science Department. In addition to the above courses, Computer Science 699 or equivalent experience is required and does not count toward the minimum 24 units courses above.

b) Breadth Requirements: The above courses must be taken from multiple research areas. A maximum of six courses (18 units) in one research area are counted toward the minimum 24 units. Courses in the intersection of two or more areas are counted in the area with the most completed course credits. The current research areas are: Artificial Intelligence and Multi-Agent Systems, Bioinformatics and Biological Computations, Computer Graphics, Computer Vision and Image Processing, Database, HCI and Visualization, Networks and Systems, Security, Theory and Foundations, Scientific Computing, Software Engineering, Other areas in Computer Science, External to Computer Science. Credits for courses external to the Department of Computer Science are only given on condition that no Computer Science course which covers similar content is counted toward the required eight courses; such courses will be counted toward the appropriate areas in Computer Science.

c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Department of Computer Science will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For PhD programs, at most 6 units at the 500 level may be taken as part of the course work requirement; at most one of these taken while registered in the current PhD program. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate on the normal Doctor of Philosophy Course Approval Form (available from the Department). Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

## Time Limit

Expected completion time for doctoral students entering with a master's degree is four years, and five years for a student transferring to the doctoral program without a master's degree.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor

after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

Doctoral students select their supervisory committee members in consultation with their permanent supervisors.

### Research Proposal Requirements

At the doctoral level, the thesis proposal must be approved by the student's supervisory committee before an oral examination on the proposal is scheduled. For complete details of the requirements, see

[http://www.ucalgary.ca/cpsc/graduate/programs/doctoral\\_phd\\_thesis\\_based/current\\_regulations](http://www.ucalgary.ca/cpsc/graduate/programs/doctoral_phd_thesis_based/current_regulations).

### Required Examinations

#### Candidacy

Doctoral students must complete a written Field of Study examination, a written thesis proposal, and an oral examination on the thesis proposal. For complete details of the candidacy requirements, see

[http://www.ucalgary.ca/cpsc/graduate/programs/doctoral\\_phd\\_thesis\\_based/current\\_regulations](http://www.ucalgary.ca/cpsc/graduate/programs/doctoral_phd_thesis_based/current_regulations).

#### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the department requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## Overview

### General Program Information

This specialization is offered jointly through the Department of Computer Science and the Department of Electrical and Software Engineering.

Students may register in the MSc program as part-time students only with permission from the Department.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.cpsc.ucalgary.ca/>

For Information Security graduate programs, see:

[GCERT Data](#)

[GCERT Netw](#)

[GCERT Soft](#)

[Master of](#)

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/computer-science-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Science [admission requirements](#), the Department requires:

- a) A four-year bachelor's degree or equivalent in Computer Science from a recognized institution with a minimum GPA of 3.00 in the last two years (i.e., last 60 units) of the undergraduate program.
- b) at least three years relevant experience in the software industry following the bachelor's degree.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 97; IELTS with a minimum score of 7.0; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 68; or the Cambridge C2 proficiency with a score of 191. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in writing courses.
- d) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

To satisfy program course requirements, a set of proposed courses must be approved by the supervisor(s) and the Graduate Program Director or delegate, in their entirety; individual courses cannot be approved in isolation. In addition to the Faculties of Graduate Studies and Science requirements, the Department requires:

- a) Course Requirements: [CPSC699 Research Methodology in Cpsc](#), plus:
- b) Twelve units of additional courses. A minimum of 9 units of these courses must be taken from the approved SENG list (available from the Department), and a maximum of 3 units can be an undergraduate course that must be numbered at the 500 level.

It is recommended that students who are considering continuing on to a doctoral program or entering certain career paths, select courses outside the approved SENG list that demonstrate some breadth across Computer Science (see [PHD Comput Breadth Requirements](#) for details).

- c) Seminar Requirement: Students are required to give a Department seminar presentation on a topic related to their graduate research.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

## **Advanced Credit**

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## **Flexible Grade Option (CG Grade)**

Students admitted to the Department of Computer Science will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## **Credit for Undergraduate Courses**

For MSc programs, at most 3 units at the 500 level may be taken as part of the course work requirement. This must be approved by the supervisor(s) and by the Graduate Program Director or delegate. Units below the 500 level are not acceptable for credit. Exceptions to this rule will be permitted only with the approval of the supervisor(s) and of the Graduate Program Director or delegate.

## **Time Limit**

Expected completion time is two years for thesis-based Master of Science.

### **Supervisory Assignments, Research Proposal, and Required Examinations**

#### **Type**

Completion Requirement

**Additional Comments:**

## **Supervisory Assignments**

Students are admitted to a specific research area and supervisor. Students may seek a change in research area or supervisor after admission. Such a change must be satisfactory to the student, and to the proposed new supervisor. Provided this change meets any current supervisory load constraints, this change will be supported and approved by the Graduate Program Director or delegate.

## **Research Proposal Requirements**

At the master's level, research proposal requirements are determined by the supervisor.

## **Thesis Examination**

In addition to the Faculty of Graduate Studies regulations for **thesis examinations**, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

Thesis examinations are open.

### **Financial Assistance**

#### **Type**

## Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered Departmental teaching assistantships and/or research assistantships in their offer letter.

Students should contact the Department for information on scholarship deadlines.

## Overview

### General Program Information

**Student enquiries:** Undergraduate Science Centre (USC) – Science B 149

**Website:** [ucalgary.ca/science/data-science/](http://ucalgary.ca/science/data-science/)

## Admissions

### Program Admissions Information

In order to be admitted to the Minor, student must have successfully completed a minimum of 12 units. Additionally, students require a minimum GPA of 3.00 calculated using the most recent course work to a maximum of 30 units. See [F.4](#) for GPA computation guidelines.

Students must apply online via their [Student Centre](#).

Students will be considered for admission on a competitive basis, and meeting the minimum requirements does not guarantee admission. Prior to applying, please be aware that students require more than one academic year to complete the Data Science minor.

See also [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty of Science Minor Program Regulations

##### Type

##### Completion Requirement

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

### Additional Comments:

#### Courses Constituting the Field of Data Science for the Minor Program

##### Type

##### Completion Requirement

Courses Constituting the Field of Data Science

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Data Science for the Minor Program

**Additional Comments:**

## Required Courses – Minor Program

### Type

### Completion Requirement

#### Required Courses – Minor Program

**Earn at least 12 credits from the following:**

- 3 units - Data Science 201
- 3 units - One of Data Science 211, Computer Science 217, 231, 235, Engineering 233 or Digital Engineering 233
- 3 units - One of Data Science 311, Computer Science 471
- 3 units - Data Science 501

#### Statistics Requirement – Minor Program

Complete one of the four following sets of courses:

**Earn at least 6 credits from the following:**

- 6 units - Data Science 305 and one of: Statistics 205, 217, 327, Biology 315, Digital Engineering 319, Economics 395, Linguistics 560 or Political Science 399
- 6 units - Statistics 321 and 323
- 6 units - Psychology 300 and 301
- 6 units - Sociology 311 and 315

#### Required Options – Minor Program

- 12 units - Additional courses chosen from Breadth Courses for the Data Science within the Courses Constituting field of Data Science no more than 6 units from courses in a single subject area

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Data Science for the Minor Program

**Additional Comments:**

## Overview

### General Program Information

### Program Information

Student enquiries: Undergraduate Science Centre (USC) – Science B 149

Website: [ucalgary.ca/science/data-science/](http://ucalgary.ca/science/data-science/)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Enrolment Limitations in Program

The number of spaces in the Data Science programs are limited and entry is competitive.

## Application to Concentrations and Registration Limitations

At the time of admission, students must choose to specialize in a concentration area (listed below).

Entry into a given concentration may be subject to enrolment limitations.

Students may apply to change their concentration once per year via the online change of program process. Refer to: [D. Change of Faculty or Program](#) for more information.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Program Regulations

##### Type

Completion Requirement

#### Additional Comments:

## Program vs. Faculty Regulations

Regulations governing Data Science are a combination of general Faculty of Science regulations and the additional program specific regulations listed below. It is essential for students to be familiar with both sets of regulations. It is helpful to read [3. Faculty of Science Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Enrolment Limitations in Courses

In the first instance, enrolment in Data Science courses is available to Data Science Majors and Minors who meet the prerequisite(s). Depending on space availability, other students who meet the prerequisite(s) may register in a course. Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

#### Courses Constituting the Field of Data Science for the Major Program

##### Type

Completion Requirement

Courses Constituting the Field of Data Science for the Major Program

Students must successfully complete 60 units, to a maximum of 66 units, in Courses Constituting the Field of Data Science while fulfilling Program Requirements.

Earn at least 60 credits from the following:

- Courses Constituting the Field of Data Science for the Major Program

Additional Comments:

## Program Requirements

### Type

Completion Requirement

Required Courses - Major Program

Earn at least 60 credits from the following:

- 30 units - Data Science 221, 305, 335, 414, 433, 443, 471, 479, 501, and 543
- 3 units - Statistics 207
- 3 units - Mathematics 211
- 12 units - Computer Science 217, 219, 319, and 583
- 12 units - Mathematics 249 or 265; 267; 271 or 273; 311

Required Concentration - Major Program

Select **ONE** concentration from the following, and complete courses from the corresponding field of study:

Actuarial Science, Anthropology, Archeology, Astrophysics, Biological Sciences, Chemistry, Communication and Media Studies, Economics, Gender and Sexuality Studies, Global Development Studies, Geography, Geology, Geophysics, History, History of Philosophy of Science, International Indigenous Studies, Law and Society, Linguistics, Mathematics, Nanoscience, Physics, Political Science, Sociology, Statistics, or Urban Studies(2).

- 18 units - From **ONE** Concentration area, with a minimum of 6 units at the 400 level or above(1)

Earn at least 18 credits from the following:

- Courses Constituting the Field of Actuarial Science
- Courses Constituting the Field of Anthropology
- Courses Constituting the Field of Archaeology
- Courses Constituting the Field of Astrophysics
- Courses Constituting the Field of Biological Sciences
- Courses Constituting the Field of Chemistry
- Courses Constituting the Field of Communication and Media Studies
- Courses Constituting the Field of Economics
- Courses Constituting the Field of Gender and Sexuality Studies
- Courses Constituting the Field of Global Development Studies
- Courses Constituting the Field of Geography
- Courses Constituting the Field of Geology
- Courses Constituting the Field of Geophysics
- Courses Constituting the Field of History
- Courses Constituting the Field of History and Philosophy of Science
- Courses Constituting the Field of International Indigenous Studies
- Courses Constituting the Field of Law and Society
- Courses Constituting the Field of Linguistics
- Courses Constituting the Field of Mathematics
- Courses Constituting the Field of Nanoscience
- Courses Constituting the Field of Physics
- Courses Constituting the Field of Political Science
- Courses Constituting the Field of Sociology

- Courses Constituting the Field of Statistics
- Courses Constituting the Field of Urban Studies

(1) If a course in the concentration area is found in the list of courses constituting the Field of Data Science, then it cannot be counted towards the concentration. Any course that is taken as part of the concentration that is offered outside the Faculty of Science and does not appear on Table 1 will result in the following:

- Replace 3 units Breadth Requirement with 3 units Option

(2) It is not possible for students in the Data Science program to choose a minor in their area of concentration or any minor offered by the Department in which the concentration courses are offered. Students may complete a minor outside of their area of concentration.

## Required Options - Major Program

**Earn at least 42 credits from the following:**

- 12 units - Options chosen from Courses Constituting the Field of Data Science for the Major Program
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 12 units - Options

## Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

#### Recommended Program Sequence for the BSc in Data Science

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

## Additional Comments:

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Data Privacy, [GCERT Netw](#) or [GCERT Soft](#) may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the **Master of** program within 5 years of completing the certificate.

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Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/data-privacy>.

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In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
12 units of coursework consisting of:

**Complete ALL of the following Requirement Sets:**

- Data Privacy GC courses

##### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced credit will not normally be given for the Data Privacy Graduate Certificate program.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For this Graduate Certificate program, credit will not normally be granted for undergraduate courses.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

### Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort.  
The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

# UCalgary

## General Program Information

### Specializations:

- Business Analytics
- Data Science
- Health Data Science and Biostatistics
- Financial and Energy Markets Data Modelling

### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the **GCERT Fund** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Graduate Diploma in Data Science and Analytics program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the **Master of** within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

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Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/data-science-analytics-diploma-course-based>

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In addition to the Faculty of Graduate Studies **admission requirements**, all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see **Qualifications**). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

Course Requirements Type
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## Completion Requirement

The Diploma requires 24 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

**Complete ANY of the following Course Sets:**

- DSAN Diploma - Business Analytics Specialization  
**OR** DSAN Diploma - Data Science Specialization  
**OR** DSAN Diploma - Health Data Science and Biostatistics Specialization  
**OR** DSAN Diploma - Financial and Energy Markets Data Modelling Specialization

**Additional Comments:**

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

Advanced Credit will not normally be given for any of the Data Science and Analytics credentials.

## Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

The expected completion time for the Graduate Diploma in Data Science and Analytics is 8 months (direct entry, full-time), and 4 months or 8 months (part-time) for students laddering from the Graduate Certificate program, depending on the schedule being offered. The maximum completion time for the Graduate Diploma is three years from the start of the program.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all ladderred credentials is six years from the start of the first credential in the laddering process.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Diploma program.

## Financial Assistance

### Type

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section.

## OVERVIEW

### General Program Information

The Master of Data Science and Analytics is a continuous program with no scheduled break.

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#### Specializations:

- Business Analytics
- Data Science
- Health Data Science and Biostatistics
- Financial and Energy Markets Data Modelling

#### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the **GCERT Fund** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the **GDIP Data** program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the Master of Data Science and Analytics within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

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Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/data-science-and-analytics-mdsa-course>.

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In addition to the Faculty of Graduate Studies **admission requirements**, all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see **Qualifications**). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Master of Data Science and Analytics requires 36 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

**Complete ANY of the following Course Sets:**

- DSAN Diploma - Business Analytics Specialization  
**OR** DSAN Diploma - Data Science Specialization  
**OR** DSAN Diploma - Health Data Science and Biostatistics Specialization  
**OR** DSAN Diploma - Financial and Energy Markets Data Modelling Specialization

**Complete ALL of the following Courses:**

- DATA691 - Integrated Topics in Data Science and Analytics

**Complete at least 1 courses in the following course sets:**

- Master of Data Science Internship

Note: Students who acquire a paid internship are to register in Data 693; students who acquire an unpaid internship are to register in Data 695.

**Additional Comments:**

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

Advanced Credit will not normally be given for any of the Data Science and Analytics credentials.

## Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

The expected completion time for the Master of Data Science and Analytics is 12 months.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is six years from the start of the first credential in the laddering process.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Master's program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

**Applications for this interdisciplinary specialization are not current being accepted.**

The University offers an interdisciplinary specialization in Energy and Environmental Systems to students registered in an existing graduate program currently offered through one of the following Faculties that are affiliated with the Institute for Sustainable Energy, Environment and Economy (ISEEE):

- School of Architecture, Planning and Landscape
- Faculty of Arts
- Haskayne School of Business
- Faculty of Law
- Faculty of Science
- Schulich School of Engineering

In cases where the student's proposed research area cannot be supported through a single academic program, and which would necessitate the combination of at least two academic areas, they may seek admission and earn the EES specialization through the Interdisciplinary Graduate Program (IGP) of the Faculty of Graduate Studies.

## Admissions

### Program Admissions Information

There are no deadlines for applying for admission into the EES Specialization; however, students will only be admitted into the EES Specialization on January 1, May 1 and September 1. Students who are already enrolled in a graduate program at the University of Calgary are able to apply to the EES Specialization.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, all applicants must meet the minimum admission requirements of the home graduate program and ISEEE. To apply for the specialization, students must complete an online EES specialization application form: <http://science.ucalgary.ca/iseee/student/apply-now>.

When applying to the EES specialization, students must have already applied to a home graduate program, faculty, or department and must already have a supervisor. Successful candidates must be approved for admission by both the home graduate program as well as by EES. Admission to a degree program does not guarantee entrance to the EES specialization. Likewise, admission to the EES specialization does not guarantee entrance to a degree program.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

## Completion Requirement

### Additional Comments:

In addition to the Faculty of Graduate Studies ([see regulations](#)) and the home graduate program's requirements, students undertaking the EES specialization must successfully complete the following:

#### EES Specialization at the Master's Level

Students in the EES specialization are required to complete four courses, which include:

- Energy and Environmental Systems 601: Introduction to Energy and Environmental Systems
- Energy and Environmental Systems 607: Tools for System Analysis

The remaining two courses must be electives approved by the EES Graduate Studies Committee. These courses are intended to bolster a student's background in energy and environmental systems and/or interdisciplinary research methods, and may be taken in other faculties, schools, or departments at the University of Calgary.

Master's students must also comply with the requirements of their home graduate program. In addition to these course requirements, students must conduct research that takes an interdisciplinary approach to a real-world problem in the area of energy and environmental systems. Students must also actively partake in EES seminars and activities, and contribute meaningfully to the interdisciplinary culture of the specialization.

#### EES Specialization at the Doctoral Level

Students who have previously earned a master's degree with the EES specialization cannot enrol into the EES specialization as a PhD student. Doctoral students are required to take the same EESS core courses that are required at the master's level and two electives in the area of energy and environment. Doctoral students must also comply with requirements of their home graduate program.

#### EES Specialization with MGIS Degree (course-based)

Students enrolled in the Master of Geographic Information Systems degree program who wish to earn the EES specialization will need to take three of the EES courses (Energy and Environmental Systems 601, 603, and one other). Students are not required to take Geography 683, but must take the other core courses in the MGIS program (Geography 647, 633, 639, and 681). Finally, students will still be required to fulfill the 30 units (5.0 full-course equivalents) requirement of the MGIS program, and can select the remaining three courses from Geography optional courses or EES related courses. It is not recommended that students required to complete the MGIS upgrade courses undertake the EES specialization.

#### EES Specialization with the Interdisciplinary Graduate Program (IGP)

The course curriculum for IGP students will be determined at the IGP admission seminar. Course requirements will typically include the EES core courses, but may also include other courses to ensure adequate coverage of the relevant disciplines involved. Changes to the student's curriculum after the admission seminar will require the approval of the Supervisory Committee, IGP Director, and the Faculty of Graduate Studies.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Requests for advanced credit must be made at the time of application. Credit will not be granted for course work taken as part of another completed degree/diploma or for courses taken to bring the admission GPA to the required level.

## Credit for Undergraduate Courses

Students are allowed to take only one 500-level course for graduate credit, subject to the approval of the EES Graduate Studies Committee. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

### Time Limit

Expected completion time for a master's degree is two years and the maximum completion time is four years.

Expected completion time for the PhD degree is four years and the maximum completion time is six years.

### Supervisory Assignment and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students must meet supervisory requirements of home department.

### Required Examinations

Final thesis orals follow the requirements of the Faculty of Graduate Studies and the home graduate program. Students in doctoral programs must fulfill the written candidacy examination requirement of the home graduate program. All doctoral students must complete the candidacy oral examination in accordance with Faculty of Graduate Studies' regulations.

### Research Proposal Requirements

If a research proposal is required by the home department, then a copy of the proposal must be submitted to the EES Graduate Studies Committee and will be placed on file.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available on a competitive basis to all qualified full-time graduate students enrolled in the EES specialization. Students are also encouraged to seek funding opportunities through the Faculty of Graduate Studies' Open Scholarship Competition (contact the home program for application deadlines), as well as external funding agencies.

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty of Science Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with Biological Sciences Concentration

##### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with Biological Sciences Concentration

Students must successfully complete a minimum of 51 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences while fulfilling the Program Requirements.

**Earn at least 51 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences

#### Additional Comments:

#### Program Requirements

## Type

Completion Requirement

Required Courses - Major with a Concentration in Biological Sciences

**Earn at least 84 credits from the following:**

- 21 units - Biology 241, 243, 311, 313, 315, 331, 371
- 3 units - Biochemistry 393
- 3 units - Ecology 417 or 419
- 3 units - Ecology 425
- 6 units - Chemistry 201 or 211; and 203 or 213
- 15 units - Chemistry 311, 315, 351, 353 and one of 321 or 515
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 6 units - Physics 211 or 221 and 223; or Earth 210 and one of Earth 310, 320, 330, 340, 350, or 360
- 3 units - Geography 308
- 3 units - Geography 408
- 15 units - Environmental Science 401, 501, 502, 503

Required Options - Major with a Concentration in Biological Sciences

**Earn at least 36 credits from the following:**

- 6 units - Options from the Field of Biological Sciences
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 15 units - Options

**Additional Comments:**

## Program Sequence

Type

Completion Requirement

**Additional Comments:**

**Recommended Program Sequence for the Biological Sciences Concentration**

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Biological Sciences Concentration.

## Degree Options

Type

Completion Requirement

Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science

- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree). The double major combination BSc Environmental Science specialization in Biological Sciences/BSc Ecology and BSc Environmental Science specialization in Biological Sciences/BSc Biological Sciences will not be allowed, however all other combinations of Major programs in Biological Sciences and BSc Environmental Science specialization in Biological Sciences will be allowed.

#### Additional Comments:

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty of Science Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

## Department Regulations

**Type**

Completion Requirement

**Additional Comments:**

### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

## Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences

**Type**

Completion Requirement

### Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

### Required Courses - Honours Degree with a Concentration in Biological Sciences

**Earn at least 84 credits from the following:**

- 21 units - Biology 241, 243, 311, 313, 315, 331, 371
- 3 units - Biochemistry 393
- 3 units - Ecology 417 or 419
- 3 units - Ecology 425
- 6 units - Chemistry 201 or 211; and 203 or 213
- 15 units - Chemistry 311, 315, 351, 353 and one of 321 or 515
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 6 units - Physics 211 or 221 and 223; or Earth 210 and one of Earth 310, 320, 330, 340, 350, or 360
- 3 units - Geography 308
- 3 units - Geography 408
- 15 units - Environmental Science 401, 501, 502, 503

Required Options - Honours Degree with a Concentration in Biological Sciences

**Earn at least 36 credits from the following:**

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Biological Sciences
- 6 units - Options from the Field of Biological Sciences
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 9 units - Options

**Additional Comments:**

#### Program Sequence

**Type**

Completion Requirement

**Additional Comments:**

**Recommended Program Sequence for the Biological Sciences Concentration**

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Biological Sciences Concentration.

#### Degree Options

**Type**

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree). The double major combination BSc Environmental Science specialization in Biological Sciences/BSc Ecology and BSc Environmental Science specialization in Biological Sciences/BSc Biological Sciences will not be allowed, however all other combinations of Major programs in Biological Sciences and BSc Environmental Science specialization in Biological Sciences will be allowed.

**Additional Comments:**

## OVERVIEW

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty of Science Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

#### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two

Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

## Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Chemistry while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major with a Concentration in Chemistry

**Earn at least 87 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 201 or 211; and 203 or 213
- 33 units - Chemistry 311, 315, 321, 351, 353, 371, 431, 515; 423 or 425; 433 or 373; 521 or 541
- 3 units - Statistics 327 or Biology 315
- 3 units - Earth 210
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 9 units - Physics 211 or 221; and 223 and 323
- 15 units - Environmental Science 401, 501, 502, 503

#### Required Options - Major with a Concentration in Chemistry

**Earn at least 33 credits from the following:**

- 3 units - Options from the Field of Chemistry
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 3 units – Non-Major Field Requirement: Options outside of the Field of Environmental Science (Chemistry Concentration)
- 12 units - Options

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

**Additional Comments:**

**Recommended Program Sequence for the Chemistry Concentration**

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Chemistry Concentration.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

### Additional Comments:

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

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For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

##### Type

Completion Requirement

Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Chemistry while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Chemistry

#### Additional Comments:

#### Program Requirements

##### Type

## Completion Requirement

### Required Courses - Honours Degree with a Concentration in Chemistry

#### Earn at least 87 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 201 or 211; and 203 or 213
- 33 units - Chemistry 311, 315, 321, 351, 353, 371, 431, 515; 423 or 425; 433 or 373; 521 or 541
- 3 units - Statistics 327 or Biology 315
- 3 units - Earth 210
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 9 units - Physics 211 or 221; and 223 and 323
- 15 units - Environmental Science 401, 501, 502, 503

### Required Options - Honours Degree with a Concentration in Chemistry

#### Earn at least 33 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Chemistry
- 3 units - Options from the Field of Chemistry
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 9 units - Options

## Additional Comments:

## Program Sequence

### Type

### Completion Requirement

## Additional Comments:

### Recommended Program Sequence for the Chemistry Concentration

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Chemistry Concentration.

## Degree Options

### Type

### Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs

- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

**Additional Comments:**

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty of Science Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Program vs Faculty Regulations**

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

**Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts**

**Type**

Completion Requirement

**Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts**

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Geography while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Major with a Concentration in Geography and Arts**

**Earn at least 96 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 12 units - Geography 308, 310, 408, and 412
- 6 units - Geography 500 or 502 or 503 or 504 or 506 or 508 or 510
- 9 units - Geography 380; and 482 or 484; and 567 or 584 or 586
- 6 units - Geography 324; and 426 or 530 or 532 or 538
- 9 units - Geography 352; 483; and 454 or 458
- 3 units - Statistics 327 or Biology 315
- 6 units - Economics 201 and 377
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Anthropology 203 or Sociology 201
- 3 units - Anthropology 313 or 355 or 395 or Environmental Science 201 or Indigenous Studies 201 or Sociology 307

**Required Options - Major with a Concentration in Geography and Arts**

**Earn at least 24 credits from the following:**

- 6 units - Options from the Faculty of Arts
- 6 units - Non-Major Field Requirement: Options outside of the Field of Environmental Science (Geography and the Arts Concentration)
- 12 units - Options

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

#### Recommended Program Sequence for the Geography and Arts Concentration

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geography and Arts Concentration.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

**Additional Comments:**

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

# UCalgary

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

##### Enroll in the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

##### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

##### Type

## Completion Requirement

### Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

## Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

### Required Courses - Major Program with a Concentration in Geography and Arts

#### Earn at least 96 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 12 units - Geography 308, 310, 408, and 412
- 6 units - Geography 500 or 502 or 503 or 504 or 506 or 508 or 510
- 9 units - Geography 380; and 482 or 484; and 567 or 584 or 586
- 6 units - Geography 324; and 426 or 530 or 532 or 538
- 9 units - Geography 352; 483; and 454 or 458
- 3 units - Statistics 327 or Biology 315
- 6 units - Economics 201 and 377
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Anthropology 203 or Sociology 201
- 3 units - Anthropology 313 or 355 or 395 or Environmental Science 201 or Indigenous Studies 201 or Sociology 307

### Required Options - Major Program with a Concentration in Geography and Arts

#### Earn at least 24 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Geography
- 6 units - Non-Major Field Requirement: Options outside of the Field of Environmental Science (Geography and the Arts Concentration)
- 12 units - Options

## Additional Comments:

## Program Sequence

### Type

#### Completion Requirement

## Additional Comments:

### Recommended Program Sequence for the Geography and Arts Concentration

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geography and Arts Concentration.

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

### Additional Comments:

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a

competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

##### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Geoscience while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Required Courses - Major Program with a Concentration in Geoscience

**Earn at least 93 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 9 units - Chemistry 201 or 211; 203 or 213; and 321
- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geology 337
- 9 units - Geology 401, 403, and 505
- 3 units - Geography 380
- 9 units - Mathematics 211 or 213; and 249 or 265 or 275; and 267 or 277
- 3 units - Physics 211 or 221
- 3 units - Statistics 327 or Biology 315
- 3 units - Computer Science 217, 231 or Data Science 211
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Science 311

Required Options - Major Program with a Concentration in Geoscience

Earn at least 27 credits from the following:

- 6 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 15 units - Options

**Note:** For students seeking to apply for registration with APEGA, 15 Units of Options should be from the Field of Geology. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

**Additional Comments:**

#### Program Sequence

Type

Completion Requirement

**Additional Comments:**

#### Recommended Program Sequence for the Geology Concentration

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geology Concentration.

#### Degree Options

Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Honours Degree Requirements

- Faculty of Science - Minor Programs
- Embedded Certificates

Double major programs are allowed combining any two of: (i) Geology or Geology (Petroleum Geology Concentration), (ii) Applied and Environmental Geology, (iii) Geophysics, (iv) Earth Science, (v) Environmental Science (Geology).

Double degree programs are allowed combining Geophysics with one of (i) Geology, (ii) Geology (Petroleum Geology Concentration), (iii) Applied and Environmental Geology, (iv) Environmental Science (Geology).

**Additional Comments:**

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements

- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

#### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

### Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

#### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Geoscience while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Environmental Science with a Concentration in Geoscience

## Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - Honours Degree with a Concentration in Geoscience

#### Earn at least 93 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 9 units - Chemistry 201 or 211; 203 or 213; and 321
- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geology 337
- 9 units - Geology 201, 202 and 343
- 3 units - Geography 380
- 9 units - Mathematics 211 or 213; and 249 or 265 or 275; and 267 or 277
- 3 units - Physics 211 or 221
- 3 units - Statistics 327 or Biology 315
- 3 units - Computer Science 217, 231 or Data Science 211
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Science 311

#### Required Options - Honours Degree with a Concentration in Geoscience

**Note:** Students seeking to apply for registration with APEGA should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

**Earn at least 27 credits from the following:**

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Geology
- 6 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 9 units - Options

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geology Concentration.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Double major programs are allowed combining any two of: (i) Geology or Geology (Petroleum Geology Concentration), (ii) Applied and Environmental Geology, (iii) Geophysics, (iv) Earth Science, (v) Environmental Science (Geology).

Double degree programs are allowed combining Geophysics with one of (i) Geology, (ii) Geology (Petroleum Geology Concentration), (iii) Applied and Environmental Geology, (iv) Environmental Science (Geology).

**Additional Comments:**

## Overview

General Program Information

Office: Science B 149

Telephone: 403.220.8600

Website: [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

Email: [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

##### Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of

Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

## Courses Constituting the Field of Environmental Sciences with a Physics Concentration

Type

Completion Requirement

Courses Constituting the Field of Environmental Science with a Concentration in Physics

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Physics while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Physics

**Additional Comments:**

## Program Requirements

Type

Completion Requirement

Required Courses - Major with a Concentration in Physics

**Earn at least 93 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 3 units - Earth 210
- 18 units - Mathematics 211 or 213; 249 or 265 or 275; 267 or 277; 376 or 375, 367, 311
- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 24 units - Physics 341, 343, 355, 397, 443, 449, 455, 561
- 6 units - Physics 375, 457, 497, 501, 507, 509, 543, 593, 599 or 663
- 3 units - Statistics 327 or Biology 315
- 15 units - Environmental Science 401, 501, 502, 503

Required Options - Major with a Concentration in Physics

**Earn at least 27 credits from the following:**

- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 12 units - Options

**Additional Comments:**

## Program Sequence

Type

Completion Requirement

**Additional Comments:**

### Recommended Program Sequence for the Concentration in Physics

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

### Additional Comments:

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Physics

##### Type

Completion Requirement

Courses Constituting the Field of Environmental Science with a Concentration in Physics

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Physics while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Physics

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

Required Courses - Honours Degree with a Concentration in Physics

**Earn at least 93 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 3 units - Earth 210

- 18 units - Mathematics 211 or 213; 249 or 265 or 275; 267 or 277; 376 or 375, 367, 311
- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 24 units - Physics 341, 343, 355, 397, 443, 449, 455, 561
- 6 units - Physics 375, 457, 497, 501, 507, 509, 543, 593, 599 or 663
- 3 units - Statistics 327 or Biology 315
- 15 units - Environmental Science 401, 501, 502, 503

Required Options - Honours Degree with a Concentration in Physics

Earn at least 27 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Physics
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 6 units - Options

**Additional Comments:**

#### Program Sequence

##### Type

Completion Requirement

**Additional Comments:**

#### Recommended Program Sequence for the Concentration in Physics

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see [Recommended Program Sequence](#) for Honours with the Physics Concentration.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

**Additional Comments:**

## Overview

### General Program Information

Office: Science B 149

Telephone: 403.220.8600

Website: [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

Email: [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts

regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

## Courses Constituting the Field of Environmental Science with a Concentration in Statistics

### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Statistics

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Statistics while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Statistics

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Degree with a Concentration in Statistics

**Earn at least 87 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 3 units - Earth 210
- 6 units - Physics 211 or 221; and 223
- 12 units - Mathematics 211 or 213; and 249 or 265 or 275; and 267 or 277; and 367
- 15 units - Statistics 321, 323, 421, 429, 517
- 3 units - Statistics 327 or Biology 315
- 12 units - Statistics 423, 425, 505, 407, 519, 523, 525, 531
- 3 units - Computer Science 217 or Data Science 211
- 15 units - Environmental Science 401, 501, 502, 503

#### Required Options - Major Degree with a Concentration in Statistics

**Earn at least 33 credits from the following:**

- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 3 units – Non-Major Field Requirement: Options outside of the Field of Environmental Science (Statistics Concentration)
- 15 units - Options

**Additional Comments:**

## Program Sequence

### Type

Completion Requirement

**Additional Comments:**

### Recommended Program Sequence for the Statistics Concentration

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

#### Completion Requirement

#### Degree Options

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

#### Additional Comments:

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

#### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Statistics

##### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Statistics

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Statistics while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Environmental Science with a Concentration in Statistics

#### Additional Comments:

## Program Requirements

### Type

Completion Requirement

Required Courses - Honours Degree with a Concentration in Statistics

Earn at least 87 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 3 units - Earth 210
- 6 units - Physics 211 or 221; and 223
- 12 units - Mathematics 211 or 213; and 249 or 265 or 275; and 267 or 277; and 367
- 15 units - Statistics 321, 323, 421, 429, 517
- 3 units - Statistics 327 or Biology 315
- 12 units - Statistics 423, 425, 505, 407, 519, 523, 525, 531
- 3 units - Computer Science 217 or Data Science 211
- 15 units - Environmental Science 401, 501, 502, 503

Required Options - Honours Degree with a Concentration in Statistics

Earn at least 33 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Statistics
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 12 units - Options

Additional Comments:

## Program Sequence

### Type

Completion Requirement

Additional Comments:

### Recommended Program Sequence for the Statistics Concentration

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see [Recommended Program Sequence](#) for Honours with the Statistics Concentration.

## Degree Options

### Type

Completion Requirement

Degree Options

To complete an optional enhancement to this degree program, refer to:

Complete ALL of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties

- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

**Additional Comments:**

## Overview

### General Program Information

#### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the Graduate Certificate in Fundamental Data Science and Analytics may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the **GDIP Data** program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the **Master of** within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/data-science-analytics-certificate-course-based>.

In addition to the Faculty of Graduate Studies **admission requirements**, all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see **Qualifications**). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be

required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Certificate requires 12 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) will not normally be given for any of the Data Science and Analytics credentials.

### Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limits

The expected completion time for the Graduate Certificate in Fundamental Data Science and Analytics is four months. The maximum completion time for the Certificate is three years from the start of the program.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is six years from the start of the first credential in the laddering process.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Certificate program.

#### Financial Assistance

##### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The MSc program may be taken on a part-time basis with consent of the Department.

Within the course-based Master of Science degree, an Interdisciplinary Specialization in Reservoir Characterization is offered. See [Reservoir](#).

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/geoscience-master-science-course-based>.

In addition to Faculty of Graduate Studies [admission](#) requirements and Faculty of Science requirements, the Department requires:

- Normally, a four-year Bachelor of Science degree or equivalent. An Honours degree in geology or geophysics, or a field related to geophysics, such as physics or mathematics, is preferred.
- A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.
- Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies [requirements](#) and the Faculty of Science requirements, the Department requires:

Completion of a minimum of 27 units of coursework, which must include:

a) [GLGY670 Independent Study](#) or [GOPH675 Independent Study](#); and

b) 24 units of elective Geoscience courses (GLGY or GOPH):

- At least 12 of 24 units must be from 600- or 700-level courses.
- Up to 12 units of appropriate courses from another department may be substituted for Geoscience electives, subject to program approval.

Full-time students are normally expected to provide their own financial support and pay tuition and fees as outlined in the graduate student calendar since the department does not normally offer financial support to course-based Master of Science students.

Part-time students may be working in the field of Geology and/or Geophysics. An industrial supervisor can agree to work with the academic supervisor in the Department to supervise and evaluate the student's research project.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

Application for advanced credit should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

The total of advanced credit and transfer credit in course-based Master's programs will generally not exceed either one-third of the program or 12 units, whichever is less.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is two years for full-time students in a course-based master's program. Maximum completion time is six years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

No financial support will be given to students enrolled in the course-based master's program.

## Overview

### General Program Information

The MSc program may be taken on a part-time basis with consent of the Department.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geoscience-master-science-thesis-based>.

In addition to Faculties of Graduate Studies and Science requirements, the Department requires:

- a) Normally, a four-year Bachelor of Science degree or equivalent. An Honours degree in geology or geophysics, or a field related to geophysics, such as physics or mathematics, is preferred.
- b) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- c) For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Science requirements, the Department requires:

Completion of a minimum of 12 units.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for **advanced credit** should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is two years for students in thesis-based master's degree programs. Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Upon admission into a thesis-based program, a student is assigned an interim supervisor by the Graduate Program Director, either based on prior communication between the student and a prospective supervisor, or chosen from the research field the student has specified. A permanent supervisor (usually the interim supervisor) is normally appointed within two months.

## Research Proposal Requirements

Master of Science thesis-based students must file a thesis proposal by March 1 of the second session of study for September registrants and July 1 for January registrants. The thesis proposal must not be more than five pages of text long and include an abstract and a list of references cited in the text. The supervisor will assess the proposal in detail.

## Required Examinations

### Thesis Examination

Master of Science thesis-based students have final thesis oral examinations that are open to the public, with a public presentation on the same day.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must have complete applications submitted to the Department by January 15.

## Overview

### General Program Information

The PhD program may be taken on a part-time basis with consent of the Department.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geoscience-doctor-philosophy-thesis-based>.

In addition to Faculties of Graduate Studies and Science [requirements](#), the Department requires:

- a) Normally, a Master of Science degree or equivalent in geoscience or a field related to geoscience, such as physics or mathematics.
- b) A concise statement outlining the applicant's research interests and reasons for wishing to attend the University of Calgary.
- c) For those students required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test), an IELTS score of 7.0, or a PTE score of 68.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

- Completion of a minimum of 12 units in the first year of the program.

Subject to supervisor and Graduate Program Director approval, this requirement may be waived fully or partially, or course exemptions may be granted on the basis of comparable courses taken during a master's program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Application for [advanced credit](#) should be made to the graduate program at the time of admission, so that the previous work can be taken into account when specifying a student's program.

Advanced credit is not guaranteed and will be determined by the Graduate Program Director or Department Head with consideration of the recommendation of the Interim Supervisor.

Courses for which advanced credit is being sought must be from a recognized institution and not have been used for any degree or diploma accreditation. They must be graded, graduate-level courses, and the graded level of performance must be equivalent to a "B" grade or higher standing at the University of Calgary. Advanced credit is not normally given for courses taken more than five years before admission to the current graduate degree program or for courses taken for the purposes of qualifying for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Department of Geoscience will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is three or four years for doctoral students. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Upon admission into a thesis-based program, a student is assigned an interim supervisor by the Graduate Program Director, either based on prior communication between the student and a prospective supervisor, or chosen from the research field the student has specified. A permanent supervisor (usually the interim supervisor) is normally appointed within two months. Supervisory committees for doctoral students are selected by consultation between the permanent supervisor and the student.

## Research Proposal Requirements

PhD students will submit a more substantial thesis research proposal within 18 months of registration. The thesis proposal will be judged a pass or fail by the Supervisory Committee. The thesis research proposal must be passed before the FOS oral examination can be scheduled. Details about the thesis research proposal and the Department of Geoscience's Doctoral Candidacy Requirements can be found at <https://science.ucalgary.ca/earth/current-students/graduate/procedures-policies-and-forms>.

## Required Examinations

### Candidacy

Doctoral students have a two-hour Field of Study (FOS) oral candidacy examination that must be completed by the twenty-eighth month of the program. The FOS oral examination cannot be attempted until the written thesis research proposal has been passed by the Supervisory Committee.

Questions on the research proposal may be included in the FOS oral candidacy examination. Details of the Department of Geoscience's Doctoral Candidacy Requirements can be found at <https://science.ucalgary.ca/earth/current-students/graduate/procedures-policies-and-forms>.

### Thesis Examination

Master of Science thesis-based and doctoral students have final thesis oral examinations that are open to the public, with a public presentation on the same day.

In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

## Type

Completion Requirement

## Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Students applying for scholarships must have complete applications submitted to the Department by January 15.

## Overview

### General Program Information

Department Office: Earth Sciences 118

Telephone: 403.220.8600

Website: [science.ucalgary.ca/earth](http://science.ucalgary.ca/earth)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Program Enrolment Limits

1. The Department of Earth, Energy, and Environment limits enrolment in all programs. Students may be directly admitted into the Geology or Geophysics programs. Students may also apply to transfer into the Geology (Petroleum Geology Concentration) program after completion of 30 units. As space permits, the Department will accept a certain number of students who wish to gain admission to the Department's programs by transferring from other institutions or programs. Any student requesting admission at this level is subject to section [A.5](#) of the Admissions section of this Calendar. In the event that the number of students choosing any of these programs exceeds the number that can be accommodated by available resources, students will be admitted to that program in descending rank order of academic performance until the enrolment limit is reached.
2. Admission will be granted for Fall Term only and will be based upon academic merit. Due to limited enrolment capacity in many senior courses, it may not always be possible to accommodate every student's choice of optional geology courses in the third and subsequent years.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Department vs. Faculty Regulations**

Programs in the Department of Earth, Energy, and Environment are governed by a combination of general Faculty of Science regulations and the additional program specific regulations stated in the following sections.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the **Faculty Regulations** first.

Students should consult Academic Requirements in their **Student Centre** periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the **Undergraduate Science Centre (USC)** at all stages of their program.

**APEGA Requirements**

The practice of geology and geophysics in Alberta is governed by Provincial law and regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

In order to meet the requirements of professional registration, specific academic training and four years of appropriate full-time experience as a geologist- or geophysicist-in-training following graduation are needed.

The Majors and Honours BSc programs in **Geology**, Geology (Petroleum Geology Concentration), and **Geophysics**, whose course requirements are stipulated in Program Details, with the exception of Environmental Science - Geology Concentration, meet the current academic requirements for professional registration with APEGA, if the appropriate options are taken (see the Notes in the Required Courses subsections in Program Details for **Geology**, Geology (Petroleum Geology Concentration), and **Geophysics**, with the exception of Environmental Science - Geology Concentration). These academic requirements are available on the APEGA website: [apega.ca](http://apega.ca), and on the Department website: **Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary (ucalgary.ca)**.

**Course Enrolment Limitations**

Many of the second-, third- and fourth-year courses in Geology and Geophysics are limited-enrolment courses, and priority for enrolment is given to students registered in one of the following programs: Geology, Geology (Petroleum Geology Concentration), Geophysics, Environmental Science (Geology Concentration), Natural Sciences (Geoscience Concentration), Earth Science.

**Courses Constituting the Field of Geology**

**Type**

Completion Requirement

**Courses Constituting the Field of Geology**

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Geology while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Geology

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Required Courses - Major Program

Earn at least 54 credits from the following:

- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geography 380
- 3 units - Geology 337
- 3 units - Geology 435, 441, 537, 545 or Geophysics 549
- 6 units - Chemistry 201 or 211; and 203 or 213
- 3 units - Computer Science 217, 231 or Data Science 211
- 3 units - Mathematics 211
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Physics 211 or 221
- 3 units - Science 311
- 3 units - Statistics 321 or 327

Required Options - Major Program

Earn at least 66 credits from the following:

- 9 units - Options from the Field of Geology at the 300 level or higher
- 9 units - Options from the Field of Geology at the 500 level or higher
- 6 units - Science Options
- 6 units - Geology, Geophysics or Engineering (GGE) options
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 3 units - Non-Major Field Requirement: Options outside of the Field of Geology
- 18 units - Options

Note: The Major program in Geology is designed so that students can meet the current academic requirements for professional registration with APEGA. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

Geology Program Streams\*

Students may focus their studies by following the **Hydrogeology/Environmental Geoscience** stream or the **Solid Earth Geoscience** stream. This entails choosing appropriate options, as outlined in the Required Courses – Major Program Section. More information can be found on the Department of Geoscience website: [BSc-Geology-concentration-and-streams.pdf \(ucalgary.ca\)](https://www.ucalgary.ca/geoscience/bsc-geology-concentration-and-streams.pdf).

*\*A stream is not a separate program, but rather a route or a suggested sequence of courses within the Geology program that students should take to focus their studies in a certain area.*

**Additional Comments:**

**Program Sequence**

**Type**

Completion Requirement

**Additional Comments:**

**Recommended Program Sequence for the BSc in Geology**

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

### General Program Information

**Department Office:** Earth Sciences 118

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/earth](http://science.ucalgary.ca/earth)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

##### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

## Department Regulations

### Type

Completion Requirement

### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Earth, Energy, and Environment are governed by a combination of general Faculty of Science regulations and the additional program specific regulations stated in the following sections.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) at all stages of their program.

## APEGA Requirements

The practice of geology and geophysics in Alberta is governed by Provincial law and regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

In order to meet the requirements of professional registration, specific academic training and four years of appropriate full-time experience as a geologist- or geophysicist-in-training following graduation are needed.

The Majors and Honours BSc programs in Geology, Geology (Petroleum Geology Concentration), and Geophysics, whose course requirements are stipulated in [Program Details](#), with the exception of Environmental Science - Geology Concentration, meet the current academic requirements for professional registration with APEGA, if the appropriate options are taken (see the Notes in the Required Courses, with the exception of Environmental Science - Geology Concentration). These academic requirements are available on the APEGA website: [apega.ca](http://apega.ca), and on the Department website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#).

## Course Enrolment Limitations

Many of the second-, third- and fourth-year courses in Geology and Geophysics are limited-enrolment courses, and priority for enrolment is given to students registered in one of the following programs: Geology, Geology (Petroleum Geology Concentration), Geophysics, Environmental Science (Geology Concentration), Natural Sciences (Geoscience Concentration), Earth Science.

## Courses Constituting the Field of Geology

### Type

Completion Requirement

#### Courses Constituting the Field of Geology

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Geology while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Geology

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

#### Earn at least 54 credits from the following:

- 21 units - Earth 210, 310, 320, 330, 340, 350, 360

- 3 units - Geography 380
- 3 units - Geology 337
- 3 units - One of Geology 435, 441, 537, 545 or Geophysics 549
- 6 units - Chemistry 201 or 211; and 203 or 213
- 3 units - Computer Science 217, 231 or Data Science 211
- 3 units - Mathematics 211
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Physics 211 or 221
- 3 units - Science 311
- 3 units - Statistics 321 or 327

#### Required Options - Honours Program

##### Earn at least 66 credits from the following:

- 15 units - From the Field of Geology at the 300 level or higher
- 9 units - Earth 570 or 580 and Field of Geology at the 500 level or above
- 6 units - Geology, Geophysics or Engineering (GGE) options
- 6 units - Science Options
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 15 units - Options

Note: The Honours program in Geology is designed so that students can meet the current academic requirements for professional registration with APEGA. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

#### Geology Program Streams\*

Students may focus their studies by following the Hydrogeology/Environmental Geoscience stream or the Solid Earth Geoscience stream. This entails choosing appropriate options, as outlined in the Required Courses – Major Program Section. More information can be found on the Department of Geoscience website: [BSc-Geology-concentration-and-streams.pdf \(ucalgary.ca\)](https://www.ucalgary.ca/geology/streams.pdf).

*\*A stream is not a separate program, but rather a route or a suggested sequence of courses within the Geology program that students should take to focus their studies in a certain area.*

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### Recommended Program Sequence for the BSc Honours in Geology

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

## Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science. The course descriptions appear in the back of this Calendar in three non-contiguous alphabetically arranged blocks.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

Admission to the General Mathematics program is only available to students in combination with the Bachelor of Education (BEd) program. In cases where students are unable to complete the Bachelor of Education (BEd), students may request to complete the BSc in General Mathematics only.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

Faculty of Science Graduation Requirements

The General Mathematics program is only available to students in combination with the Bachelor of Education (BEd) program. In cases where students are unable to complete the Bachelor of Education (BEd), students may request to complete the BSc in General Mathematics only.

For Major Degree and Combined/Concurrent Degree Programs with Other Faculties, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

## Department Regulations

### Type

Completion Requirement

### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Courses Constituting the Field of Mathematics

### Type

Completion Requirement

#### Courses Constituting the Field of General Mathematics

Students must successfully complete a minimum of 48 units to a maximum of 66 units in Courses Constituting the Field of General Mathematics while fulfilling the Program Requirements.

#### Enroll in the following Course Sets:

- All courses labelled Mathematics(MATH), Statistics (STAT), and Actuarial Science (ACSC)

## Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Program

#### Earn at least 18 credits from the following:

- 15 units - Mathematics 211 or 213; and Mathematics 311 or 313; and Mathematics 249 or 265 or 275; and Mathematics 267 or 277; Mathematics 271
- 3 units - Computer Science 217 or 231 or 235 or Data Science 211

#### Required Options - Major Program

Earn at least 102 credits from the following:

- 30 units - Selected from the Field of General Mathematics
- 3 units - Selected from the Field of General Mathematics at the 400 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 33 units - Non-Major Field Requirement: Options from outside of the Field of General Mathematics
- 18 units - Options

Additional Comments:

## Overview

General Program Information

Department Office: Earth Sciences 118

Telephone: 403.220.8600

Website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#)

## Admissions

Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Program Enrolment Limits

1. The Department of Earth, Energy, and Environment limits enrolment in all programs. Students may be directly admitted into the Geology or Geophysics programs. Students may also apply to transfer into the Geology (Petroleum Geology Concentration) program after completion of 30 units. As space permits, the Department will accept a certain number of students who wish to gain admission to the Department's programs by transferring from other institutions or programs. Any student requesting admission at this level is subject to section [A.5](#) of the Admissions section of this Calendar. In the event that the number of students choosing any of these programs exceeds the number that can be accommodated by available resources, students will be admitted to that program in descending rank order of academic performance until the enrolment limit is reached.
2. Admission will be granted for Fall Term only and will be based upon academic merit. Due to limited enrolment capacity in many senior courses, it may not always be possible to accommodate every student's choice of optional geology courses in the third and subsequent years.

## Program Details

Simple Requisites

### Faculty Requirements

Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Department Regulations

##### Department vs. Faculty Regulations

Programs in the Department of Earth, Energy, and Environment are governed by a combination of general Faculty of Science regulations and the additional program specific regulations stated in the following sections.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) at all stages of their program.

##### APEGA Requirements

The practice of geology and geophysics in Alberta is governed by Provincial law and regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

In order to meet the requirements of professional registration, specific academic training and four years of appropriate full-time experience as a geologist- or geophysicist-in-training following graduation are needed.

The Majors and Honours BSc programs in Geology, Geology (Petroleum Geology Concentration), and Geophysics, whose course requirements are stipulated in Program Details, with the exception of Environmental Science - Geology Concentration, meet the current academic requirements for professional registration with APEGA, if the appropriate options are taken (see the Notes in the Required Courses subsections in Program Details, with the exception of Environmental Science - Geology Concentration). These academic requirements are available on the APEGA website: [apega.ca](http://apega.ca), and on the Department website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#).

##### Course Enrolment Limitations

Many of the second-, third- and fourth-year courses in Geology and Geophysics are limited-enrolment courses, and priority for enrolment is given to students registered in one of the following programs: Geology, Geology (Petroleum Geology Concentration), Geophysics, Environmental Science (Geology Concentration), Natural Sciences (Geoscience Concentration), Earth Science.

## Additional Comments:

### Courses Constituting the Field of Geophysics

#### Type

Completion Requirement

#### Courses Constituting the Field of Geophysics

Students must successfully complete a minimum of 54 units, to a maximum of 66 units, in Courses Constituting the Field of Geophysics while fulfilling the Program Requirements.

##### Earn at least 54 credits from the following:

- Courses Constituting the Field of Geophysics

**Additional Comments:**

**Program Requirements**

**Type**

**Completion Requirement**

**Required Courses - Major Program**

**Earn at least 63 credits from the following:**

- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geography 380
- 3 units - Geophysics 549
- 6 units - Chemistry 201 or 211; and 203 or 213
- 3 units - Computer Science 217 or 231 or 235 or Data Science 211
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 12 units - Physics 211 or 221, 223, 321, 323
- 3 units - Science 311
- 3 units - Statistics 321 or 327

**Required Options - Major Program**

**Earn at least 57 credits from the following:**

- 6 units - From the Field of Geophysics at the 300 level or higher
- 9 units - From the Field of Geophysics at the 500 level or higher
- 6 units - Science or Engineering options
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 9 units - Non-Major Field Requirement: Options outside of the Field of Geophysics
- 12 units - Options

**Note:** The Majors program in Geophysics is designed so that students can meet the current academic requirements for professional registration with APEGA. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

**Additional Comments:**

**Program Sequence**

**Type**

**Completion Requirement**

**Additional Comments:**

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

**Degree Options**

**Type**

## Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

### Additional Comments:

## Overview

### General Program Information

Department Office: Earth Sciences 118

Telephone: 403.220.8600

Website: [science.ucalgary.ca/geoscience](http://science.ucalgary.ca/geoscience)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Program Enrolment Limits

1. The Department of Earth, Energy, and Environment limits enrolment in all programs. Students may be directly admitted into the Geology or Geophysics programs. Students may also apply to transfer into the Geology (Petroleum Geology Concentration) program after completion of 30 units. As space permits, the Department will accept a certain number of students who wish to gain admission to the Department's programs by transferring from other institutions or programs. Any student requesting admission at this level is subject to section [A.5](#) of the Admissions section of this Calendar. In the event that the number of students choosing any of these programs exceeds the number that can be accommodated by available resources, students will be admitted to that program in descending rank order of academic performance until the enrolment limit is reached.
2. Admission will be granted for Fall Term only and will be based upon academic merit. Due to limited enrolment capacity in many senior courses, it may not always be possible to accommodate every student's choice of optional geology courses in the third and subsequent years.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

Department Regulations

#### Department vs. Faculty Regulations

Programs in the Department of Earth, Energy, and Environment are governed by a combination of general Faculty of Science regulations and the additional program specific regulations stated in the following sections.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) at all stages of their program.

#### APEGA Requirements

The practice of geology and geophysics in Alberta is governed by Provincial law and regulated by the Association of Professional Engineers and Geoscientists of Alberta (APEGA).

In order to meet the requirements of professional registration, specific academic training and four years of appropriate full-time experience as a geologist- or geophysicist-in-training following graduation are needed.

The Majors and Honours BSc programs in Geology, Geology (Petroleum Geology Concentration), and Geophysics, whose course requirements are stipulated in Program Details, with the exception of 4.4.4 Environmental Science - Geology Concentration, meet the current academic requirements for professional registration with APEGA, if the appropriate options are taken (see the Notes in the Required Courses subsections in Program Details, with the exception of 4.4.4 Environmental Science - Geology Concentration). These academic requirements are available on the APEGA website: [apega.ca](http://apega.ca), and on the Department website: [Department of Earth, Energy, and Environment | Faculty of Science | University of Calgary | University of Calgary \(ucalgary.ca\)](#).

#### Course Enrolment Limitations

Many of the second-, third- and fourth-year courses in Geology and Geophysics are limited-enrolment courses, and priority for enrolment is given to students registered in one of the following programs: Geology, Geology (Petroleum Geology Concentration), Geophysics, Environmental Science (Geology Concentration), Natural Sciences (Geoscience Concentration), Earth Science.

## Additional Comments:

### Courses Constituting the Field of Geophysics

#### Type

Completion Requirement

Courses Constituting the Field of Geophysics

Students must successfully complete a minimum of 63 units, to a maximum of 78 units, in Courses Constituting the Field of Geophysics while fulfilling the Program Requirements.

Earn at least 63 credits from the following:

- Courses Constituting the Field of Geophysics

Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

**Note:** The Honours program in Geophysics is designed so that students can meet the current academic requirements for professional registration with APEGA. Students should consult the Geoscientists Canada Knowledge Requirements for specific information and are encouraged to consult with a faculty advisor with questions about how to satisfy the APEGA syllabi.

Earn at least 63 credits from the following:

- 21 units - Earth 210, 310, 320, 330, 340, 350, 360
- 3 units - Geography 380
- 3 units - Geophysics 549
- 6 units - Chemistry 201 or 211; and 203 or 213
- 3 units - Computer Science 217 or 231 or 235 or Data Science 211
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 12 units - Physics 211 or 221, 223, 321, 323
- 3 units - Science 311
- 3 units - Statistics 321 or 327

#### Required Options - Honours Program

Earn at least 57 credits from the following:

- 6 units - From the Field of Geophysics at the 300 level or higher
- 9 units - Earth 570 or 580 and Field of Geology at the 500 level or above
- 6 units - Science or Engineering options
- 15 units - Breadth Requirement: Options selected from faculties other than the Faculty of Science, excluding courses in Table I. Of these 15 units, at least 6 units must be from the Faculty of Arts.
- 21 units - Options

Additional Comments:

## Program Sequence

### Type

Completion Requirement

Additional Comments:

#### Recommended Program Sequence for the BSc Honours in Geophysics

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, or a Double Major or Major/Minor Combination, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements

- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Department vs. Faculty Regulations**

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

**Courses Constituting the Field of Mathematics**

**Type**

Completion Requirement

**Courses Constituting the Field of Mathematics**

Students must successfully complete a minimum of 54 units, to a maximum of 66 units, in Courses Constituting the Field of Mathematics while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Mathematics

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Major Program**

**Earn at least 21 credits from the following:**

- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 3 units - Computer Science 231 or 217 or Data Science 211
- 3 units - Mathematics 516 or 518 or Statistics 517

**Required Options - Major Program**

**Earn at least 99 credits from the following:**

- 6 units - Any two courses selected from: Courses labelled Statistics; Data Science 305
- 21 units - Additional courses from the Field of Mathematics at the 300 level or above
- 9 units - Additional courses from the Field of Mathematics at the 400 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted

among the courses from other faculties.

- 33 units - Non-Major Field Requirement: Options outside of the Field of Mathematics
- 12 units - Options

**Additional Comments:**

**Concentrations**

**Type**

**Completion Requirement**

**Concentrations**

Students may choose to focus their program on one of three areas of interest by including a specified set of courses into their Major degree. Students must apply for concentrations via their Student Centre. Concentrations will appear on the transcript.

Students should carefully plan their course selections to ensure that prerequisites for upper-level courses are obtained. Consultation with the Associate Head - Undergraduate or the Undergraduate Science Centre (USC) on a regular basis is highly recommended.

**A. Concentration in Statistics**

Students must successfully complete a minimum of 54 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 30 units - Courses labelled Statistics at the 400 level or higher or Actuarial Science 437 or 511 or 531 or 537
- 3 units - Statistics 517
- 3 units - Computer Science 231 or 217 or Data Science 211
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 33 units - Non-Major Field Requirement: Options outside of the Field of Mathematics
- 12 units - Options

**B. Concentration in Computational Applied Mathematics**

Students must successfully complete a minimum of 54 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 3 units - Mathematics 211 or 213
- 6 units - Mathematics 311 and 361 or 313 and 3 units in the Field of Mathematics at the 300 level or above
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 6 units - Mathematics 367; and Mathematics 375 or 376
- 3 units - Mathematics 413
- 3 units - Mathematics 307
- 9 units - Mathematics 325, 391 and 493
- 3 units - Mathematics 335
- 3 units - Additional course from the Field of Mathematics at the 400 level or above

- 3 units - Mathematics 516 or 518 or Statistics 517
- 3 units - Computer Science 217, 231 or Data Science 211
- 3 units - Computer Science 219 or 233
- 3 units - Computer Science 331
- 3 units - Software Engineering 300
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 24 units - Non-Major Field Requirement: Options not in the Field of Mathematics
- 12 units - Options

#### C. Concentration in Mathematical Finance and Risk Management

Students must successfully complete a minimum of 60 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 3 units - Mathematics 211 or 213
- 6 units - Mathematics 311 and 361; or 313 and 3 units in the Field of Mathematics at the 300 level or above
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 9 units - Statistics 321, 323, 407
- 6 units - Mathematics 367; and Mathematics 375 or 376
- 3 units - Mathematics 413
- 3 units - Mathematics 307
- 3 units - Mathematics 335
- 15 units - Mathematics 383, 391, 493, 581 and 583
- 3 units - Mathematics 516 or 518 or Statistics 517
- 3 units - Computer Science 217, 231 or Data Science 211
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.

**Additional Comments:**

#### Program Sequence

##### Type

Completion Requirement

**Additional Comments:**

#### Recommended Program Sequence for the BSc in Mathematics

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Double Major and Major/Minor Combinations in Mathematics and Statistics
- Double Major Combination with Mathematics and Actuarial Science
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science. The course descriptions appear in the back of this Calendar in three non-contiguous alphabetically arranged blocks.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, or as a Double Major or Major/Minor Combination, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that all requirements are being met. Students are strongly urged to consult the Department or Undergraduate Science Centre (USC) at all stages of their program.

### Courses Constituting the Field of Mathematics

#### Type

Completion Requirement

#### Courses Constituting the Field of Mathematics

Students must successfully complete a minimum of 60 units to a maximum of 78 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

#### Earn at least 60 credits from the following:

- Courses Constituting the Field of Mathematics

## Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - Honours Program

#### Earn at least 21 credits from the following:

- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 3 units - Computer Science 231 or 217 or Data Science 211
- 3 units - Mathematics 518 (with a grade of "B" or higher)

#### Required Options - Honours Program

#### Earn at least 99 credits from the following:

- 6 units - Any two courses selected from: Courses labelled Statistics; Data Science 305
- 21 units - Additional courses from the Field of Mathematics at the 300 level or above
- 9 units - Additional courses from the Field of Mathematics at the 400 level or above
- 6 units - Additional courses from the Field of Mathematics at the 500 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.

- 21 units - Non-Major Field Requirement: Options outside of the Field of Mathematics
- 18 units - Options

## Additional Comments:

## Concentrations

### Type

### Completion Requirement

#### Concentrations

Students may choose to focus their program on one of three areas of interest by including a specified set of courses into their Major degree. Students must apply for concentrations via their Student Centre. Concentrations will appear on the transcript.

Students should carefully plan their course selections to ensure that prerequisites for upper-level courses are obtained. Consultation with the Associate Head - Undergraduate or the Undergraduate Science Centre (USC) on a regular basis is highly recommended.

#### A. Honours Degree with a Concentration in Statistics

Students must successfully complete a minimum of 60 units to a maximum of 78 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

##### Complete ALL of the following Course Sets:

- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 30 units - Courses labelled Statistics at the 400 level or higher or Actuarial Science 437 or 511 or 531 or 537
- 3 units - Courses labelled Statistics at the 500 level or higher or Actuarial Science 511 or 531 or 437
- 3 units - Statistics 517
- 3 units - Mathematics 518 (with a grade of "B" or higher)
- 3 units - Computer Science 231 or 217 or Data Science 211
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 21 units - Non-Major Field Requirement: Options outside of the Field of Mathematics
- 18 units - Options

#### B. Honours Degree with a Concentration in Computational Applied Mathematics

Students must successfully complete a minimum of 54 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

##### Complete ALL of the following Course Sets:

- 3 units - Mathematics 211 or 213
- 6 units - Mathematics 311 and 361; or 313 and 3 units in the Field of Mathematics at the 300 level or above
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 6 units - Mathematics 367; and Mathematics 375 or 376
- 3 units - Mathematics 413
- 3 units - Mathematics 307
- 9 units - Mathematics 325, 391 and 493
- 3 units - Mathematics 335

- 3 units - Additional course from the Field of Mathematics at the 400 level or above
- 3 units - Mathematics 518 (with a grade of "B" or higher)
- 6 units - Additional courses from the Field of Mathematics at the 500 level or above
- 3 units - Computer Science 217 or 231 or Data Science 211
- 3 units - Computer Science 219 or 233
- 3 units - Computer Science 331
- 3 units - Software Engineering 300
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 12 units - Non-Major Field Requirement: Options not in the Field of Mathematics
- 18 units - Options

#### C. Honours Degree with a Concentration in Mathematical Finance and Risk Management

Students must successfully complete a minimum of 60 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

##### Complete ALL of the following Course Sets:

- 3 units - Mathematics 211 or 213
- 6 units - Mathematics 311 and 361; or 313 and 3 units in the Field of Mathematics at the 300 level or above
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 9 units - Statistics 321, 323, 407
- 6 units - Mathematics 367; and Mathematics 375 or 376
- 3 units - Mathematics 413
- 3 units - Mathematics 307
- 3 units - Mathematics 335
- 15 units - Mathematics 383, 391, 493, 581 and 583
- 3 units - Mathematics 518 (with a grade of "B" or higher)
- 3 units - Computer Science 217 or 231 or Data Science 211
- 3 units - Computer Science 219 or 233
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 24 units - Non-Major Field Requirement: Options not in the Field of Mathematics
- 12 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### Recommended Program Sequence for the BSc Honours in Mathematics

There is a Recommended Course Sequence for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the Recommended Course Sequence will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Double Major and Major/Minor Combinations in Mathematics and Statistics
- Double Major Combination with Mathematics and Actuarial Science
- Embedded Certificates
- Arts and Science Honours Academy

### Additional Comments:

## Overview

### General Program Information

A Graduate Specialization in Medical Imaging is offered in conjunction with the following graduate programs:

- Biomedical Engineering
- Electrical and Computer Engineering
- Medical Sciences
- Neurosciences
- Physics and Astronomy
- Psychology

The specialization is offered at the MSc and PhD level.

Location: FMC MRG 006

Program number: 403.944.8354

Email address: <mailto:medi@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/programs/medical-imaging-specialization/graduate-specialization>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization.

Admission into a graduate program that offers the Graduate Specialization in Medical Imaging and submission and approval of a written request to join the Specialization. The program is open to both Canadian and international students.

### Program Details

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Medical Imaging specialization must meet the following requirements:

- MSc students must take a minimum of 6 units (the core and an elective course). PhD students take at least 9 units (the core and two elective courses). PhD students previously completing the MSc specialization in Medical Imaging will be required to complete an additional 3 units (one elective course).
- Medical Imaging-related research thesis.
- Attendance and annual presentation in the [Advanced Imaging Seminar Series](#).

These requirements are in addition to the core requirements of a specific participating graduate program. In most programs, the medical imaging graduate courses would count towards graduate program elective courses. In some graduate programs, participation in the specialization may require students to take an additional graduate course or courses.

Core required course:

##### Complete ALL of the following Courses:

- MDSC689.01 - Medical Imaging Techniques

Elective courses:

##### Complete ANY of the following Courses:

- ENEL697 - Digital Image Processing  
**AND** MDSC689.02 - Advanced Magnetic Resonance Imaging  
**AND** MDSC689.03 - Advanced Medical Image Processing  
**AND** MDSC689.11 - Medical Imaging Applications  
**AND** MDSC689.99 - Medical Imaging Project
- [ENME619 Special Problems.36](#)
- Neuroscience 5850 at The University of Lethbridge
- Other Medical Imaging-related graduate courses with prior approval of specialization and graduate program

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process. See Advanced Credit for further information.

### Credit For Undergraduate Courses

Credit (in the specialization) will not be given for 500-level courses.

### Time Limit, Supervisory Assignments and Required Examinations

See requirements of home program.

## Research Proposal Requirements

Research proposal must be on a Medical Imaging topic and fit into a research area broadly defined by the Specialization (see [website](#) for information).

Image Acquisition and Reconstruction - Development of algorithms suitable for accurate imaging using existing technologies (e.g., MR, CT) and emerging methods (e.g., microwaves).

Signal Processing for Information Synthesis - Development of robust strategies for the assessment of brain and other organ function via advanced signal processing.

Quantitative Imaging and Analysis - Development of software engineering approaches, validation and testing for the creation of resilient methods for quantitative imaging.

A copy of the proposal must be provided to the specialization office within 12 months of starting the program.

In programs that do not require submission of a research proposal, a suitable proposal should be developed by the student within 12 months of starting the specialization, approved by the supervisor and supervisory committee (where appropriate), and submitted to the Specialization office.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

See home program. Additional funding may be available through the specialization or other University sources for well-qualified students.

## Overview

### General Program Information

The Master of Information Security and Privacy is a continuous program with no scheduled break.

### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the [GCERT Data](#), [GCERT Netw](#) or [GCERT Soft](#) may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Master of Information Security and Privacy program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/information-security-and-privacy-misp-course>.

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:

- Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
- Algorithms and data structures (e.g., Computer Science 331 or equivalent)
- Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

Students must complete 30 units:

##### Enroll in the following Course Sets:

- Information Security and Privacy 601
- Minimum of one of: Information Security and Privacy 603, 605, 611
- Minimum of two of: Information Security and Privacy 641, 643, 645
- Minimum of two of: Information Security and Privacy 621, 623, 625, 631
- Information Security and Privacy 691 Internship\*

Elective: Students may choose to complete [ISEC651 Topics in Security and Privacy](#).

\*Normally, students will be required to complete [ISEC691 Info Sec & Privacy Internship](#). However, with the permission of the Program Director, students may complete [ISEC681 Info Sec & Privacy Capstone](#) instead.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Advanced credit will not normally be given for the MISP program.

## Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Master's program.

## Time Limits

Expected completion time for full-time students in the Master of Information Security and Privacy for full-time students is 12 months. The maximum completion time is four years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the Awards and Financial Assistance section.

## Overview

### General Program Information

#### Specializations:

- Actuarial Science
- Biostatistics
- Mathematical Finance
- Mathematics
- Statistics

The Master of Science (course-based) degree may be completed on a part-time basis. The normal course load for a full-time course-based Master of Science student is 9 units per term.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-master-science-course-based>.

In addition to the Faculties of Graduate Studies and Science **requirements**, the Department requires:

- Normally, bachelor's degree, or its equivalent, in the subject of the specialization to which the application is made, or a closely related area.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based), or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- Three reference forms with reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements**, the Faculty of Science requires students to complete:

All students must complete 25.5 units of coursework at the graduate level. Coursework must include:

- For all specializations: completion of the seminar course (1.5 units) relevant to the specialization in the first year of the program. In addition:

**Earn at least 1.5 credits from the following:**

- MTST Graduate Seminar Courses

- For the **Mathematics** specialization: 6 units from List A.

**Earn at least 6 credits from the following:**

- MTST Graduate List A

- For the **Statistics** specialization: at least 9 units from List C.

**Earn at least 9 credits from the following:**

- MTST Graduate List C

- For the **Actuarial Science** specialization: 6 units from List C and 6 units from List D.

**Earn at least 12 credits from the following:**

- MTST Graduate List C  
**AND** MTST Graduate List D

- For the **Mathematical Finance** specialization: 6 units from list E, 6 units from List F and 6 units from List G (or 6 units from List E, 9 units from List F, and 3 units from List G).

**Earn at least 18 credits from the following:**

- MTST Graduate List E  
**AND** MTST Graduate List F  
**AND** MTST Graduate List G

f) For the Biostatistics specialization: **Biostatistics 601, Biostatistics 610**, minimum of **9 units from List C**, and maximum of **9 units of electives in Biostatistics or Statistics** (which may include courses from List C).

Earn at least 9 credits from the following:

- MTST Graduate List C

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

### Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

### Time Limit

The expected completion time for full-time master's students is two years. The maximum completion time allowed for a course-based master's program is six years.

#### Financial Assistance

##### Type

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

### General Program Information

#### Specializations:

# UCalgary

- Actuarial Science
- **BioStatist**
- Mathematical Finance
- Mathematics
- Statistics

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-master-science-thesis-based>.

In addition to the Faculties of Graduate Studies and Science **requirements**, the Department requires:

- Normally, bachelor's degree, or its equivalent, in the subject of the specialization to which the application is made, or a closely related area.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based), or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- Three reference forms with reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements** and Faculty of Science requirements, the Department requires:

All students must complete course work to the equivalent of an honours bachelor's degree plus at least 16.5 units at the graduate level. Course work must include:

- For all specializations: completion of the seminar course (1.5 units) relevant to the specialization, in the first year of the program.

**Earn at least 1.5 credits from the following:**

- MTST Graduate Seminar Courses

- For the **Mathematics** specialization: 6 units **from List A**.

**Earn at least 6 credits from the following:**

- MTST Graduate List A

- For the **Statistics** specialization: **at least 9 units from List C, 6 units of which must be Statistics 701 and 721.**

**Earn at least 9 credits from the following:**

- MTST Graduate List C

d) For the **Actuarial Science** specialization: **6 units from List C and 6 units from List D.**

Earn at least 12 credits from the following:

- MTST Graduate List C  
**AND** MTST Graduate List D

e) For the **Mathematical Finance** specialization: **6 units from List E, 3 units from List F, and 3 units from List G.**

Earn at least 12 credits from the following:

- MTST Graduate List E  
**AND** MTST Graduate List F  
**AND** MTST Graduate List G

**Additional Comments:**

#### Additional Program Information

Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

### Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

### Time Limit

The expected completion time for full-time master's students is two years. The maximum completion time allowed is four years.

#### Supervisory Assignments and Required Examinations

Type

Completion Requirement

**Additional Comments:**

### Supervisory Assignments

The Graduate Program Director, Department of Mathematics and Statistics, assigns supervisors based upon the graduate student's proposed program admission.

## Required Examinations

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program. However, it is strongly encouraged that whenever reasonable the Internal Examiner should be external to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

### General Program Information

#### Specializations:

- Actuarial Science
- [BioStatist](#)
- Mathematical Finance
- Mathematics
- Statistics

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-doctor-philosophy-thesis-based>.

In addition to the Faculties of Graduate Studies and Science [requirements](#), the Department requires:

a) A master's degree or equivalent in the subject of the specialization to which the application is made, or a closely related area.

- b) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- c) Three reference forms with reference letters.
- d) Excellent students, admitted to the master's program, may be transferred to the PhD program after having demonstrated exceptional performance at the graduate level, subject to endorsement by the supervisor and approval by the Graduate Committee. Such transfer requests are to be initiated by the supervisor and are to include information about research ability.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

Course requirements for the Doctor of Philosophy beyond those for a master's degree are determined on an individual basis, but the following rules apply: doctoral students must complete 25.5 units of graduate-level coursework in their total graduate program (MSc and PhD). PhD coursework must include:

a) For all specializations: completion of the seminar course (1.5 units) relevant to the specialization, in the first or second year of the program.

**Earn at least 1.5 credits from the following:**

- MTST Graduate Seminar Courses

b) For the **Mathematics** specialization: at least 15 units taken in the doctoral program at the University of Calgary. **6 of these units must come from List A and 3 units from List A or List B.**

**Earn at least 9 credits from the following:**

- MTST Graduate List A  
**AND** MTST Graduate List B

c) For the **Statistics** specialization: **at least 9 units from List C, 6 units of which must be Statistics 701 and 721.**

**Earn at least 9 credits from the following:**

- MTST Graduate List C

d) For the **Actuarial Science** specialization: **STAT721 Statistical Inference** (from List C) **and at least 3 more units from List C and 6 more units from List D.**

**Earn at least 9 credits from the following:**

- MTST Graduate List C  
**AND** MTST Graduate List D

e) For the **Mathematical Finance** specialization: **MATH681 Stochastic Calculus Finance, MATH683 Computational Finance, at least 3 additional units from List F, and at least 6 additional units from List F or List G.**

**Earn at least 9 credits from the following:**

- MTST Graduate List F  
**AND** MTST Graduate List G

**Additional Comments:**

## Preliminary Examinations

Doctoral students must pass written Preliminary Examinations during first year but no later than 18 months from the beginning of their doctoral programs and before the oral Field of Study examination.

- Mathematics PhD students must pass Preliminary Examinations based on material for three courses, two of which must come from List A and the third from List A or List B. Preliminary examinations will be offered during the final examination period in those semesters during which the corresponding courses are offered.
- Statistics PhD students must pass two Preliminary Examinations, one in probability based on Statistics 701 and the other in statistics based on Statistics 721. These examinations are usually offered in May and/or in December.
- Actuarial Science PhD students must pass two Preliminary Examinations based on material for two courses from List C or D.
- Biostatistics PhD students must pass two Preliminary Examinations in Statistics based on material for two courses from List C.
- Mathematical Finance PhD students must pass two Preliminary Examinations on material for two 600 or 700-level courses from List E or List F.

All Mathematics PhD students are required to give three invited or contributed presentations during their doctoral degree, not including presentations that are required as part of a graduate course or the 600 seminar course.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

### Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

### Time Limit

The expected completion time for a doctoral student is four years, and the maximum completion time is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The Graduate Program Director, Department of Mathematics and Statistics, assigns supervisors based upon the graduate student's proposed program admission.

## Required Examinations

### Candidacy

Doctoral students must complete a written thesis proposal and pass an oral Field of Study examination. For complete details of the examination format and other candidacy requirements, see [Departmental Candidacy Requirements](#) and Faculty of Graduate Studies [Candidacy](#) regulations.

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program. However, it is strongly encouraged that whenever reasonable the Internal Examiner should be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

### General Program Information

**Program Student Office:** Science B 417

**Student enquiries:** 403.210.7078

**Website:** [ucalgary.ca/nanoscience](http://ucalgary.ca/nanoscience)

**Email:** [nans@ucalgary.ca](mailto:nans@ucalgary.ca)

## Admissions

### Program Admissions Information

In order to be admitted to the Minor, student must have successfully completed a minimum of 12 units. Students will be required to meet a competitive grade point average (GPA). See also [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Requirements

For Minor Program requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

For other regulations related to the Faculty of Science, see: **3. Faculty of Science Regulations.**

**Additional Comments:**

#### Courses Constituting the Field of Nanoscience

##### Type

Completion Requirement

Courses Constituting the Field of Nanoscience

**Enroll in the following Requirement Sets:**

- Courses Constituting the Field of Nanoscience

**Additional Comments:**

#### Required Courses - Minor Program

##### Type

Completion Requirement

Required Courses - Minor Program

**Earn at least 21 credits from the following:**

- 3 units - Mathematics 249 or 265 or 275
- 18 units - Nanoscience 301, 401, 502, 511 and 599

Required Options - Minor Program

Complete 6 units of Chemistry 201 or 211; and 203 or 213; or Chemistry and 3 units of Nanoscience options

**Earn at least 6 credits from the following:**

- Chemistry 201 or 211 and 203 or 213; or Chemistry 209 and 3 units of Nanoscience Options

**Additional Comments:**

## Overview

### General Program Information

**Program Office:** Science B (SB) 149

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/neuroscience](http://science.ucalgary.ca/neuroscience)

### Ethics in Neuroscience

Studies in Neuroscience involve the use of living and dead organisms. Students taking laboratory- and field-based courses in this discipline can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Program strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses in the Neuroscience program should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Program Director.

## Admissions

### Program Admissions Information

New applicants should refer to [A.2](#) in the Admissions section of this Calendar for general regulations regarding admission requirements to the University of Calgary. For admission requirements to Neuroscience, students must also meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Students who hold an approved Bachelor's degree recognized by the University of Calgary, who wish to pursue the Bachelor of Science Honours in Neuroscience degree as a second or subsequent undergraduate degree are advised that they will be required to follow the admission procedures and meet the requirements in place for transfer applicants to the program. For additional regulations regarding admission to a second undergraduate degree, refer to [A.5.5 Second-Degree Students](#) in the Admissions section of this Calendar.

**Note:** Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2 Admission](#) and [3.4C](#).

## GPA Requirements

Students in Neuroscience must present honours-level performance at the academic review completed after each winter semester. Details on the honours review is found in section [A.2](#) of this Calendar. Students who do not qualify for continuation will be moved into the Biological Sciences program in the Department of Biological Sciences unless they indicate otherwise and meet the admission requirements for their chosen program.

**Note:** Students in Neuroscience may take no more than 36 units that would fulfill major field requirements in Biological Sciences programs or the Psychology program respectively. Students who wish to transfer out of Neuroscience into either Biological Sciences or Psychology must apply to transfer by the application deadline and will be able to take more such courses once admitted to their new program.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Department vs. Faculty Regulations**

Programs in the Department of Computer Science are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that requirements are being met. Also, students are strongly urged to consult with the Undergraduate Science Centre (USC) and the Department at all stages of their program.

**Enrolment Limitations in Courses**

In the first instance, enrolment in Neuroscience courses is available to Neuroscience students in satisfactory standing who meet the prerequisite(s). Depending on space availability, other students who are in satisfactory standing and meet the prerequisite(s) may register in a course. Consult the Schedule Builder in the [Student Centre](#) for details regarding enrolment in these courses.

**Courses Constituting the Honours Field of Neuroscience**

**Type**

Completion Requirement

**Courses Constituting the Honours Field of Neuroscience**

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Honours Field of Neuroscience while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Honours Field of Neuroscience

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Honours Program**

**Earn at least 87 credits from the following:**

- 3 units - Biochemistry 341 or 393
- 12 units - Biology 241, 243, 311 and 331
- 9 units - Chemistry 351 and one of 201 or 211 and one of 203 or 213
- 3 units - Computer Science 217 or 231 or Data Science 211
- 3 units - Mathematics 211 or 213
- 3 units - One of Mathematics 249 or 265 or 275
- 18 units - Neuroscience 201, 401, 411, 500, 511
- 12 units - Psychology 474, 475, 477, 478, 479, 521, 531
- 6 units - Physics 211 or 221, and 223

- 12 units - Psychology 200, 300, 301, 375
- 6 units - Zoology 461 and 463

Required Options - Honours Program

Earn at least 33 credits from the following:

- 33 units - Options

## Additional Comments:

Students are advised to register for courses as soon as they are eligible to ensure the best selection. Furthermore, students are advised to follow the course recommendations for each year as many courses serve as prerequisites for subsequent courses.

At the time of graduation, students who have not achieved a GPA of 3.30 over the last 90 units will be awarded a BSc Neuroscience (i.e., without the Honours designation).

Students who wish to be considered for graduation based on course work completed through a professional program as outlined in section [3.4 A](#) must complete all the requirements above with the exception of Neuroscience 500 ([NEUR500 Honours Thesis in NEUR](#)), 511 ([NEUR511 Neuroscience Seminar](#)), 521 and 531.

## Program Sequence

### Type

Completion Requirement

## Additional Comments:

### Recommended Program Sequence for the Honours Program in Neuroscience

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Combined Degrees including Neuroscience
- Double Majors including Neuroscience
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Minor with Neuroscience
- Embedded Certificates
- Arts and Science Honours Academy

## Additional Comments:

## Overview

### General Program Information

**Program Office:** Science B (SB) 149

**Telephone:** 403.220.8600

**Website:** [NATURAL SCIENCES | Faculty of Science | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Application to Concentrations and Registration Limitations

The program requires students to choose two concentrations<sup>(1)</sup>, denoted Concentration One (C1) and Concentration Two (C2) respectively, from the following list: Biology, Chemistry, Computer Science, Energy Science, Geoscience, Mathematics or Physics. Entry into a given concentration may be subject to enrolment limitations. (See Enrolment Limitations.)

Students must apply to their concentrations with their initial application to the University.

Students should be aware they will be blocked from taking more than 36 units in a major field to which they have not been admitted.

*(1) It is not possible for students in the Natural Sciences program to choose a minor in either area of their concentrations. However, students may complete a minor outside of their areas of concentration. Furthermore, Natural Sciences students may not select a second major or combined degree in areas of their two concentrations.*

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs. Faculty Regulations

Regulations governing programs in Natural Sciences are a combination of general Faculty of Science regulations and the additional program specific regulations listed below. It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met.

### Enrolment Limitations

A graduation requirement for students in the Natural Sciences program is the completion of two concentrations; see "[Application to Concentrations](#)" (refer to "Admissions" tab above). Entry into a given concentration may be subject to enrolment limitations. Students should refer to [Enrolment Limitations](#), and the sections on enrolment limitations under the regulations of the Department offering the courses in which the student is interested.

### Courses Constituting the Major Field of Natural Sciences

#### Type

Completion Requirement

#### Courses Constituting the Major Field of Natural Sciences

The major field of an individual's Natural Sciences program is defined as the total units from:

#### Earn at least 48 credits from the following:

- The total of all courses that constitute the major fields offered by departments in which the two concentrations are taken
- Science 301, 399, 499, 501, 529, 599
- Energy Science 317, 421, 423, 427, 431, 433

#### Additional Comments:

### Required Courses - Major Program

#### Type

Completion Requirement

#### 1. Major Field Courses (Concentrations One and Two)

The program must contain two concentrations as described under [Application to Concentrations](#) (refer to "Admissions" tab above).

The courses in the two concentrations must be selected as follows:

- Students require a minimum of 30 units in their Concentration One (C1). Students may not exceed 36 units in their C1. Within those courses completed for their C1, students must complete a minimum of 3 units at the 400 level or higher.
- Students require a minimum of 18 units in their Concentration Two (C2). Students may not exceed 30 units in their C2.
- The combination of units in C1 plus C2 may not exceed 60 units.

#### Fulfill ALL of the following requirements:

#### 2. Natural Science Specific Courses

#### Earn at least 9 credits from the following:

- 3 units - Science 301
- 3 units - Science 403
- 3 units - Science 501 or Science 529

*Science 529 is intended for Energy Science concentrators.*

#### 3. Other Courses outside the Major Field

Choose courses from faculties other than the Faculty of Science, excluding courses in [Table 1](#).

Science 311 ([SCIE311 Write&ReviewScientificReports](#)) may be counted among these courses.

Of these 18 units, students must take at least 6 units from the [Faculty of Arts](#).

**Earn at least 18 credits from the following:**

- 18 units - Non-science options

#### 4. Science Breadth

**Earn at least 15 credits from the following:**

- 6 units in Mathematics, selected from Mathematics 211 or 213, Mathematics 249 or 265 or 275, Mathematics 267 or 277
- 3 units in Computer Science selected from Computer Science 217 or 231 or 235 or Data Science 211
- At least 6 units from each of four different Science Departments\*

*\*Select courses from the Departments of [Biological Sciences](#); [Chemistry](#); [Computer Science](#); [Earth, Energy, and Environment](#); [Mathematics and Statistics](#); [Physics and Astronomy](#). Apply these courses to either (1) Major Field Courses or (3) Other Courses outside the Major Field as appropriate.*

**Additional Comments:**

#### Biology Concentration One

Type

Completion Requirement

Required Courses - Biology Concentration One

**Earn at least 18 credits from the following:**

- 6 units - Biology 241 and 243
- 9 units - Biology 311, 331, 371
- 3 units - Biochemistry 393 or Biology 313

Required Options - Biology Concentration One

**Earn at least 12 credits from the following:**

- 9 units - Courses from the Field of Biological Sciences at the 300 level or higher
- 3 units - Courses from the Field of Biological Sciences at the 400 level or higher

**Additional Comments:**

#### Chemistry Concentration One

Type

Completion Requirement

Required Courses - Chemistry Concentration One

**Earn at least 18 credits from the following:**

- 6 units - Chemistry 201 or 211; and 203 or 213
- 12 units - Chemistry 311, 431, 351; and 371 or 373

Required Options - Chemistry Concentration One

**Earn at least 12 credits from the following:**

- 9 units - Courses from the Field of Chemistry at the 300 level or higher
- 3 units - Courses from the Field of Chemistry at the 400 level or higher

**Additional Comments:**

### Computer Science Concentration One

#### Type

#### Completion Requirement

##### Required Courses - Computer Science Concentration One

Complete one of the following three sets of courses:

**Earn at least 6 credits from the following:**

- Computer Science 217 or Data Science 211, and Computer Science 219
- Computer Science 231 and 233
- Computer Science 235 and 3 units senior Computer Science Option

*Students interested in completing a C1 in Computer Science should complete Philosophy 279 in their first year.*

##### Required Courses - Computer Science Concentration One

**Earn at least 6 credits from the following:**

- 3 units Computer Science 251
- 3 units Computer Science 319 or 331

##### Required Options - Computer Science Concentration One

**Earn at least 18 credits from the following:**

- 15 units - Courses in the Field of Computer Science
- 3 units - Courses in the Field of Computer Science at the 400 level or higher

#### Additional Comments:

### Energy Science Concentration One

#### Type

#### Completion Requirement

##### Required Courses - Energy Science Concentration One

**Earn at least 30 credits from the following:**

- 3 units - Chemistry 203 or 213
- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 323 or 355
- 3 units - Energy and Environment, Engineering 355 or Energy Science 317
- 3 units - Chemistry 321 or 425
- 15 units - Chosen from energy science content: Energy Science 421, 423, 427, 431, 433, Physics 323 or 397

Note: Energy Science students completing a Concentration Two in Physics will have the Physics courses count toward both concentrations. No Physics courses beyond required Physics courses can count toward both Energy Science and a Physics concentration. Energy Science students completing a Concentration Two in Chemistry will have Chemistry 203 count toward both concentrations.

A Concentration Two in Energy Science is not permitted.

#### Additional Comments:

### Geoscience Concentration One

#### Type

#### Completion Requirement

Required Courses - Geoscience Concentration One

**Earn at least 15 credits from the following:**

- 9 units - Earth 210, 340, and 360
- 3 units - Earth 310 or 320
- 3 units - Earth 340 or 350
- 3 units - Geography 380

Required Options - Geoscience Concentration One

**Earn at least 15 credits from the following:**

- 9 units - Courses in the Fields of Geology and/or Geophysics at the 300 level or higher
- 3 units - Courses in the Fields of Geology and/or Geophysics at the 400 level or higher

**Additional Comments:**

**Mathematics Concentration One**

**Type**

**Completion Requirement**

Required Courses - Mathematics Concentration One

**Earn at least 18 credits from the following:**

- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 6 units - Mathematics 311 or 313; and Statistics 321
- 3 units - Mathematics 367 or 376

Required Options - Mathematics Concentration One

**Earn at least 12 credits from the following:**

- 9 units - Courses in the Field of Mathematics
- 3 units - Courses in the Field of Mathematics at the 400 level or higher

**Additional Comments:**

**Physics Concentration One**

**Type**

**Completion Requirement**

Required Courses - Physics Concentration One

**Earn at least 12 credits from the following:**

- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 6 units - Either Physics 223 and 323; or 355 and 397

Required Options - Physics Concentration One

**Earn at least 18 credits from the following:**

- 15 units - Courses in the Field of Physics or the Field of Astrophysics at the 300 level or higher
- 3 units - Courses in the Field of Physics or the Field of Astrophysics at the 400 level or higher

**Additional Comments:**

**Concentration Two**

**Type**

**Completion Requirement**

**Biology Concentration Two**

A minimum of 18 units to a maximum of 30 units selected from the major Field of Biological Sciences.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Biological Sciences

**Chemistry Concentration Two**

A minimum of 18 units to a maximum of 30 units selected from the major Field of Chemistry.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Chemistry

**Computer Science Concentration Two**

A minimum of 18 units to a maximum of 30 units selected from the major Field of Computer Science.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Computer Science

**Geoscience Concentration Two**

A minimum of 18 units to a maximum of 30 units selected from the major Field of Geology and/or Geophysics.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Geology
- Courses Constituting the Field of Geophysics

**Mathematics Concentration Two**

A minimum of 18 units to a maximum of 30 units selected from the major Field of Mathematics.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Mathematics

**Physics Concentration Two**

A minimum of 18 units to a maximum of 30 units selected from the major Field of Physics and/or Astrophysics.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Physics
- Courses Constituting the Field of Astrophysics

**Additional Comments:**

**Program Sequence**

**Type**

**Completion Requirement**

**Additional Comments:**

There are **Recommended Course Sequences** for these programs. These sequences describe both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequences** will ensure students can complete their programs in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Concurrent Degree in Natural Sciences and BEd

### Type

Completion Requirement

Concurrent Degree in Natural Sciences and BEd

**Complete ALL of the following Requirement Sets:**

- Concurrent Degree in Natural Sciences and BEd

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

Degree Options

To complete an **optional** enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

*It is not possible for students in the Natural Sciences program to choose a minor in either area of their concentrations. However, students may complete a minor outside of their areas of concentration. Furthermore, Natural Sciences students may not select a second major or combined degree in areas of their two concentrations.*

**Additional Comments:**

## Overview

### General Program Information

**Program Office:** Science B (SB) 149

**Telephone:** 403.220.8600

**Website:** [NATURAL SCIENCES | Faculty of Science | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Application to Concentrations and Registration Limitations

The program requires students to choose two concentrations<sup>(1)</sup>, denoted Concentration One (C1) and Concentration Two (C2) respectively, from the following list: Biology, Chemistry, Computer Science, Energy Science, Geoscience, Mathematics or Physics. Entry into a given concentration may be subject to enrolment limitations. (See Enrolment Limitations.)

Students must apply to their concentrations with their initial application to the University.

Students should be aware they will be blocked from taking more than 36 units in a major field to which they have not been admitted.

*(1) It is not possible for students in the Natural Sciences program to choose a minor in either area of their concentrations. However, students may complete a minor outside of their areas of concentration. Furthermore, Natural Sciences students may not select a second major or combined degree in areas of their two concentrations.*

## Program Details

### Simple Requisites

#### Faculty Requirement

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs. Faculty Regulations

Regulations governing programs in Natural Sciences are a combination of general Faculty of Science regulations and the additional program specific regulations listed below. It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met.

#### Enrolment Limitations

A graduation requirement for students in the Natural Sciences program is the completion of two concentrations; see "[Application to Concentrations](#)" (refer to "Admissions" tab above). Entry into a given concentration may be subject to enrolment limitations. Students should refer to [Enrolment Limitations](#), and the sections on enrolment limitations under the regulations of the Department offering the courses in which the student is interested.

#### Courses Constituting the Field of Natural Sciences

##### Type

Completion Requirement

## Courses Constituting the Field of Natural Sciences

The major field of an individual's Natural Sciences program is defined as:

**Earn at least 54 credits from the following:**

- The total of all courses that constitute the major fields offered by departments in which the two concentrations are taken
- Science 301, 399, 499, 501, 529, 599
- Energy Science 317, 421, 423, 427, 431, 433

**Additional Comments:**

## Required Courses - Honours Program

Type

Completion Requirement

### Required Courses - Honours Program

#### 1. Major Field Courses (Concentrations One and Two)

The program must contain two concentrations as described under Application to Concentrations.

The courses in the two concentrations must be selected as follows:

Students require a minimum of 30 units in their C1. Students may not exceed 36 units in their C1. Within those courses completed for their C1, students must complete a minimum of 6 units at the 400 level or higher.

Students require a minimum of 18 units in their C2. Students may not exceed 30 units in their C2.

The combination of units in C1 plus C2 may not exceed 60 units.

**Fulfill ALL of the following requirements:**

#### 2. Natural Science Specific Courses

**Earn at least 15 credits from the following:**

- 3 units - Science 301
- 3 units - Science 403
- 3 units - Science 501 or Science 529
- 6 units - Science 502

*Science 529 is intended for Energy Science concentrators.*

**AND**

#### 3. Other Courses outside the Major Field

Choose courses from faculties other than the Faculty of Science, excluding courses in [Table 1](#).

Science 311 ([SCIE311 Write&ReviewScientificReports](#)) may be counted among these courses.

Of these 18 units, students must take at least 6 units from the [Faculty of Arts](#).

**Earn at least 18 credits from the following:**

- 18 units - Non-science options

**AND**

#### 4. Science Breadth

**Earn at least 15 credits from the following:**

- 6 units in Mathematics, selected from Mathematics 211 or 213, Mathematics 249 or 265 or 275, Mathematics 267 or 277

- 3 units in Computer Science selected from Computer Science 217 or 231 or 235 or Data Science 211
- At least 6 units from each of four different Science Departments\*

*\*Select courses from the Departments of Biological Sciences; Chemistry; Computer Science; Earth, Energy, and Environment; Mathematics and Statistics; Physics and Astronomy. Apply these courses to either (1) Major Field Courses or (3) Other Courses outside the Major Field as appropriate.*

**Additional Comments:**

**Biology Concentration One**

**Type**

**Completion Requirement**

Required Courses - Biology Concentration One

**Earn at least 18 credits from the following:**

- 6 units - Biology 241 and 243
- 9 units - Biology 311, 331, 371
- 3 units - Biochemistry 393 or Biology 313

Required Options - Biology Concentration One

**Earn at least 12 credits from the following:**

- 9 units - Courses from the Field of Biological Sciences at the 300 level or higher
- 3 units - Courses from the Field of Biological Sciences at the 400 level or higher

*Note: Natural Sciences students are not permitted to take more than 6 units from courses numbered 507 offered by the Department of Biological Sciences.*

**Additional Comments:**

**Chemistry Concentration One**

**Type**

**Completion Requirement**

Required Courses - Chemistry Concentration One

**Earn at least 18 credits from the following:**

- 6 units - Chemistry 201 or 211; and 203 or 213
- 12 units - Chemistry 311, 431, 351; and 371 or 373

Required Options - Chemistry Concentration One

**Earn at least 12 credits from the following:**

- 9 units - Courses from the Field of Chemistry at the 300 level or higher
- 3 units - Courses from the Field of Chemistry at the 400 level or higher

**Additional Comments:**

**Computer Science Concentration One**

**Type**

**Completion Requirement**

Required Courses - Computer Science Concentration One

Complete one of the following three sets of courses:

**Earn at least 6 credits from the following:**

- Computer Science 217 or Data Science 211, and Computer Science 219
- Computer Science 231 and 233
- Computer Science 235 and 3 units senior Computer Science Option

*(1) Students interested in completing a C1 in Computer Science should complete Philosophy 279 in their first year.*

Required Courses - Computer Science Concentration One

**Earn at least 6 credits from the following:**

- 3 units Computer Science 251
- 3 units Computer Science 319 or 331

Required Options - Computer Science Concentration One

**Earn at least 18 credits from the following:**

- 15 units - Courses in the Field of Computer Science
- 3 units - Courses in the Field of Computer Science at the 400 level or higher

**Additional Comments:**

### Energy Science Concentration One

Type

Completion Requirement

Required Courses - Energy Science Concentration One

**Earn at least 30 credits from the following:**

- 3 units - Chemistry 203 or 213
- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 223 or 355
- 3 units - Energy and Environment, Engineering 355 or Energy Science 317
- 3 units - Chemistry 321 or 425
- 15 units - Chosen from energy science content: Energy Science 421, 423, 427, 431, 433, Physics 323 or 397

*Note: Energy Science students completing a Concentration Two in Physics will have the Physics courses count toward both concentrations. No Physics courses beyond required Physics courses can count toward both Energy Science and a Physics concentration. Energy Science students completing a Concentration Two in Chemistry will have Chemistry 203 count toward both concentrations.*

**Additional Comments:**

### Geoscience Concentration One

Type

Completion Requirement

Required Courses - Geoscience Concentration One

**Earn at least 15 credits from the following:**

- 15 units - Geology 201, 202, 343, 381, and Geophysics 351 or 355

Required Options - Geoscience Concentration One

**Earn at least 15 credits from the following:**

- 9 units - Courses in the Fields of Geology and/or Geophysics at the 300 level or higher

- 3 units - Courses in the Fields of Geology and/or Geophysics at the 400 level or higher

**Additional Comments:**

#### Mathematics Concentration One

Type

Completion Requirement

Required Courses - Mathematics Concentration One

**Earn at least 18 credits from the following:**

- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 6 units - Mathematics 311 or 313; and Statistics 321
- 3 units - Mathematics 367 or 376

Required Options - Mathematics Concentration One

**Earn at least 12 credits from the following:**

- 9 units - Courses in the Field of Mathematics
- 3 units - Courses in the Field of Mathematics at the 400 level or higher

**Additional Comments:**

#### Physics Concentration One

Type

Completion Requirement

Required Courses - Physics Concentration One

**Earn at least 12 credits from the following:**

- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 6 units - Either Physics 223 and 323; or 355 and 397

Required Options - Physics Concentration One

**Earn at least 18 credits from the following:**

- 15 units - Courses in the Field of Physics or the Field of Astrophysics at the 300 level or higher
- 3 units - Courses in the Field of Physics or the Field of Astrophysics at the 400 level or higher

**Additional Comments:**

#### Concentration Two

Type

Completion Requirement

Biology Concentration Two

A minimum of 18 to a maximum of 30 units selected from the major Field of Biological Sciences.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Biological Sciences

#### Chemistry Concentration Two

A minimum of 18 units to a maximum of 30 units selected from the major Field of Chemistry.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Chemistry

#### Computer Science Concentration Two

A minimum of 18 units to a maximum of 30 units selected from the major Field of Computer Science.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Computer Science

#### Geoscience Concentration Two

A minimum of 18 units to a maximum of 30 units selected from the major Field of Geology and/or Geophysics.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Geology
- Courses Constituting the Field of Geophysics

#### Mathematics Concentration Two

A minimum of 18 units to a maximum of 30 units selected from the major Field of Mathematics.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Mathematics

#### Physics Concentration Two

A minimum of 18 units to a maximum of 30 units selected from the major Field of Physics and/or Astrophysics.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Physics
- Courses Constituting the Field of Astrophysics

**Additional Comments:**

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

There are **Recommended Course Sequences** for these programs. These sequences describe both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequences** will ensure students can complete their programs in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Concurrent Degree in Natural Sciences and BEd

##### Type

Completion Requirement

Concurrent Degree in Natural Sciences and BEd

**Complete ALL of the following Requirement Sets:**

- Concurrent Degree in Natural Sciences and BEd

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete an **optional** enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

*It is not possible for students in the Natural Sciences program to choose a minor in either area of their concentrations. However, students may complete a minor outside of their areas of concentration. Furthermore, Natural Sciences students may not select a second major or combined degree in areas of their two concentrations.*

Additional Comments:

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Network Security, **GCERT Data** or **GCERT Soft** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the **Master of** program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/network-security-cert>.

In addition to Faculty of Graduate Studies **admission requirements**, admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:

## UCalgary

- Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
- Algorithms and data structures (e.g., Computer Science 331 or equivalent)
- Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
12 units of coursework consisting of:

**Complete ALL of the following Requirement Sets:**

- Network Security GC Courses

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

Advanced credit will not normally be given for the Network Security Graduate Certificate.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).  
Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For this Graduate Certificate program, credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

## Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort. The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

#### Specializations:

- Astrophysics
- Physics
- Space Physics

The MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-master-science-course-based>.

In addition to Faculty of Graduate Studies and Faculty of Science [requirements](#), the Department requires:

a) A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.

- b) Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.
- c) Two reference letters.

Applicants to the Master of Science program whose background does not include the equivalent of an undergraduate honours degree in the proposed area of study may require additional make-up courses. Such applicants should consult with the department regarding their admission status.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#) and the Faculty of Science requirements, the Department requires:

All students must complete three components of the Scientific Communication Skills course, [PHYS691.11 Effective Scientific Speaking](#), [PHYS691.12 Graduate Seminar](#) and [PHYS691.13 Effective Scientific Writing](#), during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

Students must complete 30 units of coursework, which will include:

##### Complete ALL of the following Courses:

- PHYS605 - Advanced Data Analysis  
AND PHYS609 - Advanced Classical Mechanics  
AND PHYS611 - Statistical Physics  
AND PHYS613 - Electrodynamics

##### Complete at least 1 of the following courses:

- PHYS615 - Non-Relativistic Quantum Mechanics  
OR PHYS617 - Relativistic Quantum Mechanics

#### Additional Comments:

Complete 15 units within the area of specialization:

*Astrophysics* – [PHYS699 Project In Physics](#) and 12 units selected from Astrophysics, [PHYS629 Gravitation](#), [SPPH671 Physics Of The Magnetosphere](#). With permission, up to 6 units of Astrophysics may be at the 500 level. If the topic is appropriate, Physics 698 may be used.

*Physics* – [PHYS699 Project In Physics](#) plus 6 units of Astrophysics, Physics, or Space Physics courses (these may be at the 500 level) plus 6 units of Physics courses, at the 600 level or above.

*Space Physics* – [PHYS699 Project In Physics](#), [PHYS509 Plasma Physics](#) and 9 units selected from Space Physics or Physics related to space physics (with permission, 3 units may be at the 500 level).

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process.

## Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

## Time Limit

Expected completion time is three years in a course-based program. Maximum completion time is six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program.

The MSc program has a supervisory committee requirement which follows the same requirements and rules as the PhD.

### Required Examinations

Two weeks before the comprehensive oral examination, students must write a three-hour, closed-book comprehensive examination, prepared by the Departmental Graduate Affairs Committee in collaboration with the supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

#### Specializations:

- Astrophysics

# UCalgary

- Medical Physics
- Physics
- Radiation Oncology Physics
- Space Physics
- Comp Neuro
- Medical Im

The PhD MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-master-science-thesis-based>.

In addition to Faculty of Graduate Studies and Faculty of Science **requirements**, the Department requires:

- a) A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- b) Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.
- c) Two reference letters.

Applicants to the Master of Science program whose background does not include the equivalent of an undergraduate honours degree in the proposed area of study may require additional make-up courses. Such applicants should consult with the department regarding their admission status.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements** and Faculty of Science requirements, the Department requires:

All students must complete three components of the Scientific Communication Skills course, **PHYS691.11 Effective Scientific Speaking**, **PHYS691.12 Graduate Seminar** and **PHYS691.13 Effective Scientific Writing**, during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

- a) All students must complete the core courses:

**Earn at least 6 credits from the following:**

- PHYS605 - Advanced Data Analysis  
**OR** PHYS609 - Advanced Classical Mechanics  
**OR** PHYS611 - Statistical Physics  
**OR** PHYS613 - Electrodynamics

**OR PHYS615 - Non-Relativistic Quantum Mechanics**

**OR PHYS617 - Relativistic Quantum Mechanics**

Note: Only one of Physics 615 and 617 can be taken as a core course.

**Additional Comments:**

b) In addition, students must complete course requirements for their specialization as described below.

*Astrophysics, Physics, and Space Physics*

- Elective courses: 6 units at the 500 or 600 level, as approved by the Graduate Program Director.

*Medical Physics*

- Specialization courses: MDPH623 Radiotherapy Physics I and MDPH625 Radiation Oncology Physics; and
- Elective course: 3 units at the 500 or 600 level, as approved by the Graduate Program Director.

*Radiation Oncology Physics*

- Specialization courses: MDPH623 Radiotherapy Physics I, MDPH625 Radiation Oncology Physics, MDPH633 Radiation Oncology Physics Lab, MDPH637 Anatomy & Statistics For MdPh, MDPH638 Imaging Rad'n Oncology Phys, MDPH639 Radiobio & Rad Safety for MdPh; and
- Clinical rotation: MDPH632 Clin Rotate Radiation OncoPhys

**Additional Requirements**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make Advanced Credit requests as part of the admission process.

**Credit for Undergraduate Courses**

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

**Flexible Grade Option (CG Grade)**

Students admitted to the PHAS Graduate Program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

**Time Limit**

Expected completion time is two years for full-time students in a thesis Master's program.

Maximum completion time is four years.

**Supervisory Assignments and Thesis Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program. The MSc program has a supervisory committee requirement which follows the same requirements and rules as the PhD.

## Thesis Examinations

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The thesis examination is open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://www.ucalgary.ca/rop/>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://www.ucalgary.ca/future-students/graduate/explore-programs/radiation-oncology-physics-certificate-course-based>.

In addition to Faculty of Graduate Studies' admission [requirements](#), and Faculty of Science requirements, the Department requires:

- a) A University of Calgary Honours background in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- b) For some applicants, a satisfactory score on the Advanced Physics Graduate Record Examination.
- c) Two reference letters.

In addition, applicants must possess a PhD in Physics, Medical Physics, Biophysics, or Biomedical Engineering. Applicants with PhDs in sciences other than those listed above may consult with the department regarding possible admission. A minimum GPA of 3.50 over an applicant's last 60 units of course work is required before an applicant may be considered for admission; however, exceptional students with extenuating circumstances may be considered.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and Faculty of Science requirements, the Department requires:

19.5 units consisting of:

**Complete ALL of the following Courses:**

- MDPH623 - Radiotherapy Physics I  
**AND** MDPH625 - Radiation Oncology Physics  
**AND** MDPH633 - Radiation Oncology Physics Lab  
**AND** MDPH637 - Anatomy and Statistics for Medical Physicists  
**AND** MDPH638 - Imaging for Radiation Oncology Physics  
**AND** MDPH639 - Radiobiology and Radiation Safety for Medical Physicists  
**AND** MDPH632 - Clinical Rotation in Radiation Oncology Physics

The Fall schedule consists of MDPH 623, 638 and 639.

The Winter schedule consists of MDPH 625, 632, 633, 637 and Ethics and Errors (offered not for credit)

No substitutions accepted.

Graduation requires successful completion of all required courses with a minimum grade of "B".

#### Additional Comments:

Regular attendance at Radiation Oncology Rounds, Grand Rounds and non-credit training sessions such as the Ethics and Errors course (winter term).

#### Additional Requirements

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced Credit for a maximum of 3 units may be given.

### Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate-level courses.

### Time Limit

Expected completion time is 8 months (two terms) for the Postdoctoral Certificate program.

## Supervisory Assignments

### Type

Completion Requirement

### Additional Comments:

All students will be supervised by the Postdoctoral certificate co-ordinator or delegate co-ordinator for the duration of their program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is not available for this program.

## Overview

### General Program Information

\*The Postdoctoral Diploma is a continuous program with no scheduled break.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://www.ucalgary.ca/rop/>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://www.ucalgary.ca/future-students/graduate/explore-programs/radiation-oncology-physics-diploma-course-based>.

In addition to Faculty of Graduate Studies' admission requirements, and Faculty of Science requirements, the Department requires:

- a) A University of Calgary Honours background in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- b) For some applicants, a satisfactory score on the Advanced Physics Graduate Record Examination.
- c) Two reference letters.

In addition, applicants must possess a PhD from a CAMPEP accredited graduate program or equivalent and an appointment as an Associate Medical Physicist by the Alberta Health Services.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and Faculty of Science requirements, the Department requires:

18 units consisting of:

**Complete ALL of the following Courses:**

- MDPH711 - Clinical Competency I  
**AND** MDPH712 - Clinical Competency II  
**AND** MDPH721 - Clinical Projects I  
**AND** MDPH722 - Clinical Projects II  
**AND** MDPH731 - Radiation Oncology Physics Tutorials  
**AND** MDPH741 - Treatment Planning

No substitutions accepted.

Graduation requires successful completion of all required courses with a minimum grade of "B".

**Additional Comments:**

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

Advanced Credit is not given.

## Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No credit will be given for undergraduate-level courses.

## Time Limit

Expected completion time is two years for the Postdoctoral Diploma program.

## Supervisory Assignments

### Type

Completion Requirement

**Additional Comments:**

Registrants are supervised by the Director of Medical Physics or designate, Tom Baker Cancer Centre.

## Financial Assistance

### Type

Completion Requirement

**Additional Comments:**

Financial assistance is not available for this program.

## Overview

### General Program Information

**Specializations:**

- Astrophysics
- Medical Physics
- Physics
- Radiation Oncology Physics
- Space Physics
- Comp Neuro
- Medical Im

The PhD MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies' admission requirements, and Faculty of Science requirements, the Department requires:

- A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.
- Two reference letters.

## Program Details

### Simple Requisites

**Program/Course Requirements****Type**

Completion Requirement

**Additional Comments:**

In addition to Faculty of Graduate Studies requirements and Faculty of Science requirements, the Department requires:

- A minimum of 6 units at the 600 level or higher for students who hold a master's degree.
- A minimum of 18 units at the 600 level or higher for those entering the doctoral program without a master's degree.

c) For students specializing in **Radiation Oncology Physics** who do not hold an accredited MSc degree in Radiation Oncology Physics:

- [MDPH623 Radiotherapy Physics I](#), [MDPH625 Radiation Oncology Physics](#), [MDPH632 Clin Rotate Radiation OncoPhys](#), [MDPH633 Radiation Oncology Physics Lab](#), [MDPH637 Anatomy & Statistics For MdPh](#), [MDPH638 Imaging Rad'n Oncology Phys](#) and [MDPH639 Radiobio & Rad Safety for MdPh](#); and
- 6 units from [PHYS609 Advanced Classical Mechanics](#), [PHYS611 Statistical Physics](#), [PHYS613 Electrodynamics](#), [PHYS615 Non-Relativistic Quantum Mech](#), [PHYS617 Relativistic Quantum Mechanics](#) (only one of Physics 615 and 617 can be taken for credit).

All students must complete three components of the Scientific Communication Skills course, [PHYS691.11 Effective Scientific Speaking](#), [PHYS691.12 Graduate Seminar](#) and [PHYS691.13 Effective Scientific Writing](#), during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

### Additional Program Information

#### Type

Completion Requirement

Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process.

### Credit for Undergraduate Courses

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

### Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Expected completion time is four years in a doctoral program. Maximum completion time is six years.

### Supervisory Assignments and Thesis Examinations

#### Type

Completion Requirement

Additional Comments:

### Supervisory Assignments

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program.

### Candidacy

Doctoral students must complete a written thesis proposal and an oral Field of Study examination. For complete details of the candidacy requirements, see [https://phas.ucalgary.ca/graduate/programs/doctoral\\_phd\\_thesis\\_based/candidacy\\_exam](https://phas.ucalgary.ca/graduate/programs/doctoral_phd_thesis_based/candidacy_exam).

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The thesis examination is open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5385

**Fax:** 403.289.3331

**Website:** [science.ucalgary.ca/physics-astronomy](https://science.ucalgary.ca/physics-astronomy)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

### Faculty Requirements

#### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Department vs. Faculty Regulations**

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the Undergraduate Science Centre (USC) at all stages of their program.

**Double Major and Major/Minor Combinations Submit**

A Major in either Physics or Astrophysics cannot be combined with either a Minor in Physics or Astrophysics.

Students may not complete more than one Minor offered by the Department of Physics and Astronomy.

Students may complete Physics and Astrophysics as a Double Major program.

**Courses Constituting the Field of Physics**

**Type**

Completion Requirement

**Courses Constituting the Field of Physics**

Students must successfully complete a minimum of 51 units to a maximum of 66 units in Courses Constituting the Field of Physics while fulfilling the Program Requirements.

**Earn at least 51 credits from the following:**

- Courses Constituting the Field of Physics

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Major Program**

**Earn at least 75 credits from the following:**

- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 3 units - Computer Science 217 or Data Science 211
- 3 units - Chemistry 201 or 209 or 211 or Biology 241
- 3 units - Chemistry 203 or 213 or Biology 205 or Computer Science 219 or Astrophysics 305
- 39 units - Physics 341, 343, 355, 375, 381, 397, 443, 449, 455, 457, 497, 501, and 599 or 598
- 3 units - Mathematics 311 or 313

- 6 units - Mathematics 375 or 376, and Mathematics 367 or 377
- 3 units - Physics 435 or Mathematics 433

## Required Options - Major Program

### Earn at least 45 credits from the following:

- 3 units - 400- or 500-level Physics option
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 6 units - Science options
- 3 units - Non-Major Field Requirement: Options that are not in the Field of Physics
- 15 units - Options

## Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

#### Recommended Program Sequence for the BSc in Physics

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

## Additional Comments:

## Overview

General Program Information

Department Office: Science B 605

# UCalgary

Telephone: 403.220.5385

Fax: 403.289.3331

Website: [science.ucalgary.ca/physics-astronomy](http://science.ucalgary.ca/physics-astronomy)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the Undergraduate Science Centre (USC) at all stages of their program.

##### Double Major and Major/Minor Combinations Submit

A Major in either Physics or Astrophysics cannot be combined with either a Minor in Physics or Astrophysics.

Students may not complete more than one Minor offered by the Department of Physics and Astronomy.

Students may complete Physics and Astrophysics as a Double Major program.

#### Courses Constituting the Field of Physics

##### Type

Completion Requirement

Courses Constituting the Field of Physics

Students must successfully complete a minimum of 63 units to a maximum of 78 units in Courses Constituting the Field of Physics while fulfilling the Program Requirements.

**Earn at least 63 credits from the following:**

- All courses labelled Physics (PHYS) except Physics 271, 303 or 371

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

Required Courses - Honours Program

**Earn at least 90 credits from the following:**

- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 3 units - Computer Science 217 or Data Science 211
- 3 units - Chemistry 201 or 209 or 211 or Biology 241
- 3 units - Chemistry 203 or 213 or Biology 205 or Computer Science 219 or Astrophysics 305
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 265 or 275 or 249
- 3 units - Mathematics 267 or 277
- 3 units - Mathematics 311 or 313
- 6 units - Mathematics 375 or 376, and Mathematics 367 or 377
- 3 units - Physics 435 or Mathematics 433
- 54 units - Physics 341, 343, 355, 375, 381, 397, 443, 449, 451, 455, 457, 481, 497, 501, 543, 597, and 598

Required Options - Honours Program

**Earn at least 30 credits from the following:**

- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 3 units - Science options
- 9 units - Options

**Additional Comments:**

## Program Sequence

**Type**

Completion Requirement

**Additional Comments:**

### Recommended Program Sequence for the BSc Honours in Physics

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

## Type

### Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

#### Additional Comments:

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](https://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

## UCalgary

- Directly from High School (see [Section 3.2](#) Admissions) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

### Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

### Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

## Completion Requirement

### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

## Courses Constituting the Field of Plant Biology

### Type

#### Completion Requirement

#### Courses Constituting the Field of Plant Biology

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Plant Biology while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Plant Biology

### Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

#### Required Courses - Major Program

#### Earn at least 60 credits from the following:

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Chemistry 353 or option
- 15 units - From Biology 435, 453, Plant Biology 327, 401, 403, 421, 543
- 6 units - From Biochemistry 561, Biology 451, 505, Plant Biology 541

#### Required Options - Major Program

#### Earn at least 60 credits from the following:

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 6 units - From the Field of Plant Biology
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding

courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.

- 15 units - Non-Major Field Requirement: Options that are not in the Field of Plant Biology
- 15 units - Options

**Additional Comments:**

#### Program Sequence

##### Type

Completion Requirement

**Additional Comments:**

#### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc in Plant Biology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

## Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

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## Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see [Section 3.2](#) Admissions) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

### Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).

- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT) - [acat.alberta.ca/](http://acat.alberta.ca/).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

## Courses Constituting the Field of Plant Biology

### Type

Completion Requirement

#### Courses Constituting the Field of Plant Biology

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Plant Biology while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Plant Biology

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

#### Earn at least 66 credits from the following:

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Chemistry 353 or option
- 15 units - From Biology 435, 453, Plant Biology 327, 401, 403, 421, 543
- 6 units - From Biochemistry 561; Biology 451, 505; Plant Biology 541
- 6 units - Plant Biology 530

#### Required Options - Honours Program

#### Earn at least 54 credits from the following:

- 6 units - Junior Science Breadth: one set of courses from either Computer Science, Earth, or Physics
- 6 units - From the Field of Plant Biology
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 3 units - Non-Major Field Requirement: Options that are not in the Field of Plant Biology
- 21 units - Options

### Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

#### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences

are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

## Recommended Program Sequence for the BSc Honours in Plant Biology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

### General Program Information

The Graduate Certificate in Quantum Computing can be completed full- or part-time.

Students can choose to apply directly to one of the Quantum Computing credentials or complete the individual credentials via a laddered pathway.

### Laddered Pathway from the Graduate Certificate to the Graduate Diploma, and from the Graduate Diploma to the Master of Quantum Computing

Students who complete the Graduate Certificate in Quantum Computing may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Graduate Diploma in Quantum Computing program within 5 years of beginning the certificate.

# UCalgary

Students who complete the Graduate Diploma in Quantum Computing may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted into the Master of Quantum Computing program within 5 years of beginning the first credential in the laddering process.

Email address: <mailto:prograd.science@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/current-students/graduate/graduate-science-centre>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/quantum-computing-certificate>.

Admission to all programs in Quantum Computing is competitive and meeting minimum requirements does not guarantee admission to any program.

In addition to Faculty of Graduate Studies [admission requirements](#), admission into each of the credentials requires:

- A four-year Bachelor's degree in science or engineering or equivalent from a recognized institution.
- A minimum admission grade point average of 3.0 on a 4.0 scale or equivalent calculated on the last 60 units completed.
- Successful completion of:
  - 3-unit undergraduate course in linear algebra (MATH 211 or equivalent)
  - 3-unit undergraduate course in computer programming (CPSC 231 or CPSC 217 or equivalent, or demonstrated equivalent professional experience in computer programming)
- Resume or CV.

**Note:** In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the programs in Quantum Computing (see [G.A.1 Qualifications](#)). The applicant must provide the Quantum Computing Program Director with evidence demonstrating the potential to successfully undertake these programs. An in-person interview may also be required with the Program Director.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Certificate requires 12 units of coursework:

##### Enroll in the following Course Sets:

- Quantum GC Courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Advanced Credit will not normally be given for any of the Quantum Computing credentials.

## Flexible Grade Option (CG Grade)

The Graduate programs in Quantum Computing will permit the Flexible Grade Option (CG Grade) for any course offered by the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not be granted for undergraduate courses.

## Time Limits

The expected completion time for the Graduate Certificate in Quantum Computing is four months. The maximum completion time for the Certificate is two years from the start of the program.

## Supervisory Assignments

An academic coordinator is assigned to each cohort in the Graduate Certificate program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students enrolled in any of the Quantum Computing Graduate Credentials are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards.

For information on awards, see the Awards and Financial Assistance section.

## Overview

### General Program Information

The Graduate Diploma in Quantum Computing can be completed full- or part-time.

Students can choose to apply directly to one of the Quantum Computing credentials or complete the individual credentials via a ladder pathway.

### Laddered Pathway from the Graduate Certificate to the Graduate Diploma, and from the Graduate Diploma to the Master of Quantum Computing

Students who complete the Graduate Certificate in Quantum Computing may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Graduate Diploma in Quantum Computing program within 5 years of beginning the certificate.

Students who complete the Graduate Diploma in Quantum Computing may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted into the Master of Quantum Computing program within 5 years of beginning the first credential in the laddering process.

Email address: <mailto:prograd.science@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/current-students/graduate/graduate-science-centre>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/quantum-computing-diploma>.

Admission to all programs in Quantum Computing is competitive and meeting minimum requirements does not guarantee admission to any program.

In addition to Faculty of Graduate Studies [admission requirements](#), admission into each of the credentials requires:

- A four-year Bachelor's degree in science or engineering or equivalent from a recognized institution.
- A minimum admission grade point average of 3.0 on a 4.0 scale or equivalent calculated on the last 60 units completed.
- Successful completion of:
  - 3-unit undergraduate course in linear algebra (MATH 211 or equivalent)
  - 3-unit undergraduate course in computer programming (CPSC 231 or CPSC 217 or equivalent, or demonstrated equivalent professional experience in computer programming)
- Resume or CV.

**Note:** In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the programs in Quantum Computing (see [G.A.1 Qualifications](#)). The applicant must provide the Quantum Computing Program Director with evidence demonstrating the potential to successfully undertake these programs. An in-person interview may also be required with the Program Director.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
The Diploma requires 24 units of coursework:

##### Enroll in the following Course Sets:

- Quantum GC Courses  
**AND** Quantum GD Courses

##### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit will not normally be given for any of the Quantum Computing credentials.

### Flexible Grade Option (CG Grade)

The Graduate programs in Quantum Computing will permit the **Flexible Grade Option (CG Grade)** for any course offered by the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit will not be granted for undergraduate courses.

### Time Limits

The expected completion time for the Graduate Diploma in Quantum Computing is eight months (direct entry pathway), and four months for students laddering from the Graduate Certificate program. The maximum completion time for the Graduate Diploma is two years from the start of the Diploma program.

For students laddering from the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is 6 years from the start of the first credential (Graduate Certificate) in the laddering process.

### Supervisory Assignments

An academic coordinator is assigned to each cohort in the Graduate Diploma program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Students enrolled in any of the Quantum Computing Graduate Credentials are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards.

For information on awards, see the **Awards and Financial Assistance** section.

## Overview

### General Program Information

The Master of Quantum Computing can be completed full- or part-time.

Students can choose to apply directly to one of the Quantum Computing credentials or complete the individual credentials via a laddered pathway.

#### Laddered Pathway from the Graduate Certificate to the Graduate Diploma, and from the Graduate Diploma to the Master of Quantum Computing

Students who complete the Graduate Certificate in Quantum Computing may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Graduate Diploma in Quantum Computing program within 5 years of beginning the certificate.

Students who complete the Graduate Diploma in Quantum Computing may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted into the Master of Quantum Computing program within 5 years of beginning the first credential in the laddering process.

Email address: <mailto:prograd.science@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/current-students/graduate/graduate-science-centre>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website:

Master of Quantum Computing: <https://grad.ucalgary.ca/future-students/explore-programs/quantum-computing-masters>.

Admission to all programs in Quantum Computing is competitive and meeting minimum requirements does not guarantee admission to any program.

In addition to Faculty of Graduate Studies [admission requirements](#), admission into each of the credentials requires:

- A four-year Bachelor's degree in science or engineering or equivalent from a recognized institution.
- A minimum admission grade point average of 3.0 on a 4.0 scale or equivalent calculated on the last 60 units completed.
- Successful completion of:
  - 3-unit undergraduate course in linear algebra (MATH 211 or equivalent)
  - 3-unit undergraduate course in computer programming (CPSC 231 or CPSC 217 or equivalent, or demonstrated equivalent professional experience in computer programming)
- Resume or CV.

**Note:** In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the programs in Quantum Computing (see [G.A.1 Qualifications](#)). The applicant must provide the Quantum Computing Program Director with evidence demonstrating the potential to successfully undertake these programs. An in-person interview may also be required with the Program Director.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Master's requires 36 units of coursework:

##### Enroll in the following Course Sets:

- Quantum GC Courses  
    **AND** Quantum GD Courses  
    **AND** Quantum Master's Core Course  
    **AND** Quantum Master's Internship Courses

Note: Students who acquire a paid internship are to register in QUAC 693/694; students who acquire an unpaid internship are to register in QUAC 695/696.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) will not normally be given for any of the Quantum Computing credentials.

### Flexible Grade Option (CG Grade)

The Graduate programs in Quantum Computing will permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade may affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit will not be granted for undergraduate courses.

### Time Limits

The expected completion time for the Master of Quantum Computing (direct-entry pathway) is 12 months, and four months for students entering via the laddered pathway. The maximum completion time for the direct-entry Master's is six years.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is 6 years from the start of the first credential in the laddering process.

### Supervisory Assignments

An academic coordinator is assigned to each cohort in the Master's program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Students enrolled in any of the Quantum Computing Graduate Credentials are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards.

For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Reservoir Characterization to students registered in an existing course-based master's program in the Departments of Chemical and Petroleum Engineering or Geoscience. The program integrates reservoir engineering, geology, geophysics, and reservoir characterization. The student will receive the degree offered by the home program:

- Master of Engineering in Chemical and Petroleum Engineering (MEng)
- Master of Science in Geoscience (MSc)

All students will normally be considered to have full-time status. In exceptional circumstances part-time status may be considered and must be approved by the Graduate Director.

Geoscientists should contact the Department of Geoscience and engineers should contact the Department of Chemical and Petroleum Engineering for further information.

#### Department of Chemical and Petroleum Engineering

Location: Schulich School of Engineering, Room B202

Program number: 403.220.4802

Fax: 403.284.4852

# UCalgary

Email Address: <mailto:chemandpetenggrad@ucalgary.ca>

Web page URL: <http://schulich.ucalgary.ca/departments/chemical-and-petroleum-engineering>

## Department of Geoscience

Location: Earth Sciences 118

Program number: 403.220.3254

Fax: 403.284.0074

Email Address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://geoscience.ucalgary.ca/>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website:

Master of Engineering in Chemical and Petroleum Engineering (MEng): <https://grad.ucalgary.ca/future-students/explore-programs/chemical-and-petroleum-engineering-meng-course>.

Master of Science in Geoscience (MSc): <https://grad.ucalgary.ca/future-students/explore-programs/geoscience-msc-course>.

In addition to Faculty of Graduate Studies **admission** requirements, all applicants must meet the minimum standards of the home program.

Acceptance into the Master of Engineering program would normally require the completion of the equivalent of the Bachelor of Science in Oil and Gas Engineering degree offered by the University of Calgary. However, individuals with more diverse background and industry experience may be considered for admission.

Acceptance into the Master of Science program requires the completion of a Bachelor of Science in Geoscience plus a course in Well Logging and Formation Evaluation such as Petroleum Engineering 507 at the University of Calgary, or equivalent.

Applicants with an undergraduate degree in geology must demonstrate acceptable proficiency in mathematics. It is an asset for geologists to have taken additional mathematics courses as technical electives during their undergraduate degree.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

To address the broad background of students entering the Reservoir Characterization Interdisciplinary Specialization, there are three streams for completion: Engineering, Geology or Geophysics.

In addition to Faculty of Graduate Studies ([see regulations](#)) and the home program requirements, the Specialization requires: All students must take at least six courses at the 600 and/or 700 level.

#### Students in Engineering are required to take:

##### Complete ALL of the following Courses:

- GOPH559 - Imaging, Inversion, and Interpretation of Geophysical Data  
**AND** ENCH621 - Reservoir Simulation  
**AND** ENCH661 - Geostatistics for Reservoir Characterization  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which MUST be Geology or Geophysics:

**Complete ANY of the following Courses:**

- ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH619 - Special Problems  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering  
**OR** GLGY647 - Geology Well Log Applications  
**OR** GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy  
**OR** GLGY699 - Selected Topics in Geology  
**OR** GOPH667 - Introduction to Passive Seismic Monitoring  
**OR** GOPH671 - Inverse Theory & Applications I

\*ENCH 619.63

\*GLGY 699.76

**Students in Geology are required to take:**

**Complete ALL of the following Courses:**

- ENPE523 - Introduction to Reservoir Engineering  
**AND** ENCH621 - Reservoir Simulation  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development
- ENCH661 - Geostatistics for Reservoir Characterization  
**OR** GLGY697 - Advanced Geostatistics

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which MUST be Engineering:

**Complete ANY of the following Courses:**

- ENPE525 - Waterflooding and Enhanced Oil Recovery  
**OR** ENPE533 - Petroleum Production Engineering  
**OR** ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH619 - Special Problems  
**OR** ENCH629 - Secondary & Tertiary Recovery  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering  
**OR** ENCH687 - Petroleum Economics

**OR** GOPH667 - Introduction to Passive Seismic Monitoring  
**OR** GLGY647 - Geology Well Log Applications  
**OR** GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy  
**OR** GLGY699 - Selected Topics in Geology  
**OR** GOPH559 - Imaging, Inversion, and Interpretation of Geophysical Data

\*ENCH 619.63

\*GLGY 699.76

**Students in Geophysics are required to take:**

**Complete ALL of the following Courses:**

- ENPE523 - Introduction to Reservoir Engineering  
**AND** ENCH621 - Reservoir Simulation  
**AND** ENCH661 - Geostatistics for Reservoir Characterization  
**AND** OBHR668 - Seminar in the Management of Human Resources
- ENCH698 - Reservoir Characterization for Field Development  
**AND** GLGY698 - (ENCH698)Reservoir Characterization for Field Development

\*Chemical Engineering 698/Geology 698 to be taken in the final semester of study. Chemical Engineering 698/Geology 698 course is a team-based experience with each team required to analyze and integrate various data (e.g., seismic, logs, and production) from a real field. Each member of the team is expected to have proficiency on the software packages for geophysical interpretation, geological mapping, geostatistical modelling and reservoir flow modelling. The reservoir characterization will require the development and assessment of a geostatistical model of the field that will be used for a history match and to propose future development. The project will conclude with a formal presentation to experts from both academia and industry.

and select four from the following list, two of which **MUST** be Engineering:

**Complete ANY of the following Courses:**

- ENPE525 - Waterflooding and Enhanced Oil Recovery  
**OR** ENPE533 - Petroleum Production Engineering  
**OR** ENPE543 - Geological Characterization of Oil and Gas Reservoirs  
**OR** ENCH611 - Advanced Well Test Analysis (Inactive)  
**OR** ENCH629 - Secondary & Tertiary Recovery  
**OR** ENCH649 - Naturally Fractured Reservoirs  
**OR** ENCH657 - Advanced Reservoir Engineering  
**OR** ENCH687 - Petroleum Economics  
**OR** GOPH667 - Introduction to Passive Seismic Monitoring  
**OR** GLGY647 - Geology Well Log Applications  
**OR** GLGY655 - Unconventional Reservoir Characterization and Evaluation for Transitional Energy  
**OR** GLGY699 - Selected Topics in Geology

\*ENCH 619.63

\*GLGY 699.76

**Additional Comments:**

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Time Limit

Expected completion time is two years and maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Supervisors will be approved by the specialization Graduate Program Director.

## Required Examinations

After the conclusion of the Capstone Project, there will be a comprehensive oral examination of each student before an examining committee that includes a faculty member from each of the three disciplines. Each student will be expected to express in-depth knowledge in their area of expertise (Engineering, Geology, Geophysics), and to have a comprehensive knowledge of the significance of the other two areas in successful reservoir characterization.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

For information on awards, see the **Awards and Financial Assistance** section of this calendar.

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Software Security, **GCERT Data** or **GCERT Netw** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Master of Information Security and Privacy program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/software-security-cert>.

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
- Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

Completion Requirement

**Complete ALL of the following Requirement Sets:**

- Software Security GC courses

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

Advanced credit will not normally be given for the Software Security Graduate Certificate.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

For the Software Security Graduate Certificate, credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

## Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort. The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Wearable Technology at the master's and doctoral levels for students registered in the following faculties and graduate programs:

- Faculty of Kinesiology
- Biomedical Engineering Graduate Program
- Geomatics Engineering Graduate Program
- Department of Electrical and Software Engineering
- Department of Computer Science
- Department of Psychology
- Computational Media Design Graduate Program

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

Faculty of Kinesiology

Location: KNB 269

Program number: 403.220.7019

Email address: <mailto:kirsten.penrose@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates/our-programs/wearable>

## Admissions

## Program Admissions Information

The deadlines for applying for admission into the Wearable Technology specialization are available on the Future Students website for the home graduate program.

- [MSCT Kines](#)
- [PHD Kinesi](#)
- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Geoma](#)
- [PHD Geomat](#)
- [Engineerin](#)
- [Engineerin](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Comp](#)
- [PhD Comp M](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Applicants must meet the [admission](#) requirements of the Faculty of Graduate Studies and the home program that offers the Wearable Technology specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

##### MSc (thesis-based)

In addition to meeting the requirements of Faculty of Graduate Studies ([see regulations](#)) and the home program, MSc students in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, supervisor, and supervisory committee.

##### Doctor of Philosophy

In addition to meeting the requirements of Faculty of Graduate Studies and the home program, PhD trainees in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)\*
4. One (3 unit) elective in Biomechanics, OR Data Science, OR Data Visualization\*\* at the 600 or 700 level.

*\*With the support of the student's home program and Faculty of Graduate Studies, the student may complete Kinesiology 612 either before or after admission to candidacy.*

*\*\*Must be approved by the specialization Director, the student's Supervisor and Supervisory Committee.*

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, Supervisor, and Supervisory Committee.

Students are expected to attend the annual Wearable Technology Workshop held each Fall semester and participate in the Wearable Technology Lecture series.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process.

## Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

## Supervisory Assignments

See requirements of home program.

## Required Examinations

See requirements of home program and the Faculty of Graduate Studies ([Academic Regulations](#)).

## Financial Assistance

See home program.

## Overview

### General Program Information

#### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for

organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

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### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see [Section 3.2](#) Admissions) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 – Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

### Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

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### Transfers between Alberta Universities and Colleges

The Departments of Biological Sciences at the Universities of Alberta and Calgary and the Department of Biology at the University of Lethbridge have a transfer agreement in effect. The full details of the Biological Sciences Transfer Agreement are available in the Alberta Transfer Guide published by the Alberta Commission on Admissions and Transfer (ACAT)

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

##### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is **essential** for students to be familiar with **both** sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

#### Courses Constituting the Field of Zoology

##### Type

Completion Requirement

#### Courses Constituting the Field of Zoology

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Zoology while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Zoology

#### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Program

Earn at least 63 credits from the following:

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 6 units - Physics 211 or 221 and 223; or Earth 210 and one of Earth 310, 320, 330, 340, 350, or 360
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Biology 315
- 6 units - Chosen from Zoology 401, 403, 461, 463 or Cellular, Molecular and Microbial Biology 403
- 12 units - Chosen from Biology 401, Cellular, Molecular and Microbial Biology 403 or any courses labelled Zoology (ZOOL) at the 400 level or above

#### Required Options - Major Program

Earn at least 57 credits from the following:

- 6 units - From the Field of Zoology at the 400 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 15 units - Non-Major Field Requirement: Options that are not in the Field of Zoology
- 18 units - Options

### Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

#### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc in Zoology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

### Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

### Department Information

Student enquiries: 403.220.8600

Department Office: Biological Sciences 186

Website: [science.ucalgary.ca/biological-sciences](http://science.ucalgary.ca/biological-sciences)

### Ethics in the Biological Sciences

Studies in the Biological Sciences involve the use of living and dead organisms. Students taking laboratory- and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Associate Head, Undergraduates of the Department.

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Enrolment Limitations in Programs, Admissions and Student Standing

Admission to programs in the department is competitive. Admission will be granted for Fall Term only and will be based upon academic merit. (New admissions to the University are always subject to [A.2](#) as stated in the Admissions section of this Calendar.)

Applications to the Department of Biological Sciences programs are accepted:

- Directly from High School (see [Section 3.2](#) Admissions) into either the Biological Sciences program, or into Honours Biochemistry; Honours Cellular, Molecular and Microbial Biology; Honours Ecology; Honours Plant Biology; or Honours Zoology.
- From external transfer students and change of program requests from University of Calgary students into the Biological Sciences program.
- Subject to the Honours qualifications set out in Subsection [3.2 - Honours Programs](#), and to availability of space, students may request placement into any of the Honours programs offered by the Department.
- From external transfer students and change of program requests from University of Calgary students into BSc programs in Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; and Zoology after completion of a minimum of 30 units.

Admission to Concentrations:

- Biological Sciences students can apply to a concentration online through their Student Centre from October 1–February 1 for admission the following fall. The concentrations are optional and not required for program completion. Students can apply after their first year and up until their final year. To be admitted to the concentration, students must have completed 18 units, including Biology 241 and 243, before the February 1 deadline. In addition, students will require a competitive GPA, which will be determined annually and calculated using the most recent course work. See [A.5.3.1](#) for GPA computation guidelines.

Notes:

- Any student in an Honours program is subject to the provisions for continuation in an Honours program, Subsections [3.2](#) and [3.4C](#).
- Honours students in the Biological Sciences program who do not qualify for continuation in honours will be moved into the Biological Sciences Major BSc Program. Honours students admitted to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) who do not qualify for continuation in honours may be moved into the Major BSc Program of their current specialized program. In order to be moved into the Major BSc Program of their current specialized program students must have completed 30 units prior to their review period and meet the minimum GPA requirement for admission into that specialized program. Students in honours in a specialized program who do not meet the preceding requirements will be moved into the Biological Sciences Major BSc program.
- Students with a GPA of less than 2.000 are subject to the provisions of [3.7 Student Standing](#), B. Performance Review, Probationary Status and Dismissal.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

## Department Regulations

### Type

Completion Requirement

### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is **essential** for students to be familiar with **both** sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Enrolment Limitations in Courses

Enrolment in many courses offered by the Department of Biological Sciences is limited by available laboratory or tutorial space.

Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

## Courses Constituting the Field of Zoology

### Type

Completion Requirement

#### Courses Constituting the Field of Zoology

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Zoology while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Zoology

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

#### Earn at least 69 credits from the following:

- 18 units - Biology 241, 243, 311, 313, 331, 371
- 6 units - Chemistry 201 or 211; and 203 or 213
- 6 units - One of Mathematics 249 or 265 or 275; and one of Mathematics 211 or 213 or 267 or 277 or Statistics 327
- 6 units - Physics 211 or 221 and 223; or Earth 210 and one of Earth 310, 320, 330, 340, 350, or 360
- 3 units - Biochemistry 393
- 3 units - Chemistry 351
- 3 units - Biology 315
- 6 units - Chosen from Zoology 401, 403, 461, 463 or Cellular, Molecular and Microbial Biology 403
- 12 units - Chosen from Biology 401, Cellular, Molecular and Microbial Biology 403 or any courses labelled Zoology (ZOOL) at the 400 level or above
- 6 units - Zoology 530

#### Required Options - Honours Program

Earn at least 51 credits from the following:

- 6 units - From the Field of Zoology at the 400 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 3 units - Non-Major Field Requirement: Options that are not in the Field of Zoology
- 24 units - Options

**Additional Comments:**

### Program Sequence

Type

Completion Requirement

**Additional Comments:**

#### First and Second Year Course Selection

The recommended first and second year course sequences for all programs offered by the Department of Biological Sciences are similar, but not identical. Thus, students should consult the Suggested Program Sequence charts below for the specific program they intend to pursue. Most students will initially enter the BSc in Biological Sciences but may apply for a change of program to a specialized program (Biochemistry; Cellular, Molecular and Microbial Biology; Ecology; Plant Biology; or Zoology) after they have successfully completed a minimum of 30 units. Students may begin planning their coursework for their specialized program from first year.

#### Recommended Program Sequence for the BSc Honours in Zoology

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

Type

Completion Requirement

#### Faculty of Science Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Major Degree Requirements
- Faculty of Science - Minor Programs
- Double Major in the Department of Biological Sciences
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

# Faculty of Social Work Department

Summary of Degree Programs

Faculty Information

Faculty Regulations

Program Details

Administration

Courses of Instruction by the Faculty of Social Work

## Programs

### Overview

#### General Program Information

**Graduate Certificates in Social Work** serve as stand-alone credentials for practicing social workers who seek formal professional development opportunities in their field or provide practicing social workers a flexible option to pursue the MSW degree.

Students may complete a given certificate only once. Repeating the same certificate is not permitted. Not all Graduate Certificates and specializations are offered every year. For availability, consult the Faculty of Social Work [website](#).

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#### Program Delivery

The certificates are completed full-time and courses are offered by distance (online) learning. Most require virtual and/or in-person residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Note: International students admitted to a Graduate Certificate with a mandatory in-person campus residency must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program.

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#### Laddered Pathway from Graduate Certificates to MSW

Students who complete the Graduate Certificate in Advanced Social Work Practice (ASWP) and one of: **GCERT Clin**, **GCERT Inte** or **Social Wor** may apply to the Master of Social Work (course-based) program. See [LADMSWCB](#).

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Email address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

#### Program Admissions Information

Deadlines are available on the Future Students webpage at <https://grad.ucalgary.ca/future-students/explore-programs/social-work-msw-course>.

Students who wish to complete two successive certificates through a laddered pathway into the MSW (course-based) degree must apply to each certificate and the MSW (a total of three applications) and will receive each credential upon its successful completion.

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In addition to the Faculty of Graduate Studies' [admission](#) requirements, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized\* institution. The degree must be awarded prior to the start of the Graduate Certificate.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council of Social Work Education (CSWE), and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) For applicants required to present proof of proficiency in English: a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

**Note:** Once admitted, students are not permitted to switch specializations within the chosen certificate. Requests to defer an offer of admission are not normally considered.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

The Graduate Certificate consists of 12 units of coursework. Course requirements are determined by the specialization.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

**Advanced Credit** is not awarded toward a graduate certificate.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work will allow students in the Graduate Certificates in Social Work to pursue the **Flexible Grade Option (CG Grade)** for graduate courses offered by the Faculty. Students may receive a grade of CG only once, for a total of 3 units, regardless of the number of graduate certificates they complete. In addition, students may receive a grade of CG only once throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Time Limit

The expected completion time is eight months for any of the graduate certificates. Maximum completion time is two years.

Students taking graduate certificates as part of the ladder pathway to the MSW (course-based) degree program must apply to ladder into the MSW within five years from the start of their first graduate certificate in the laddering sequence.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students enrolled in a Graduate Certificate in Social Work are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

[Graduate Certificates in Social Work](#) serve as stand-alone credentials for practicing social workers who seek formal professional development opportunities in their field or provide practicing social workers a flexible option to pursue the MSW degree.

Students may complete a given certificate only once. Repeating the same certificate is not permitted. Not all Graduate Certificates and specializations are offered every year. For availability, consult the Faculty of Social Work [website](#).

### Program Delivery

The certificates are completed full-time and courses are offered by distance (online) learning. Most require virtual and/or in-person residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Note: International students admitted to a Graduate Certificate with a mandatory in-person campus residency must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program.

### Specializations (CSWP):

- Adult Mental Health and Addictions
- Individuals, Families and Group
- Infant, Child and Adolescent Mental Health
- Trauma-Informed Practice
- Clinical Gerontology Practice
- Community-Informed Practice for Health and Wellbeing

### Laddered Pathway from Graduate Certificates to MSW

Students who complete the Graduate Certificate in Clinical Social Work Practice (CSWP) and one of: [GCERT Adva](#), [GCERT Inte](#) or [Social Wor](#) may apply to the Master of Social Work (course-based) program. See [LADMSWCB](#).

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-cert>

Students who wish to complete two successive certificates through a ladder pathway into the MSW (course-based) degree must apply to each certificate and the MSW (a total of three applications) and will receive each credential upon its successful completion.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized\* institution. The degree must be awarded prior to the start of the Graduate Certificate.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council of Social Work Education (CSWE), and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) For applicants required to present proof of proficiency in English: a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

**Note:** Once admitted, students are not permitted to switch specializations within the chosen certificate. Requests to defer an offer of admission are not normally considered.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

The Graduate Certificate consists of 12 units of coursework. Course requirements are determined by the specialization.

#### Complete ANY of the following Course Sets:

- Social Work, CSWP Specialization, Adult Mental Health and Addictions  
**OR** Social Work, CSWP Specialization, Individuals Families and Group  
**OR** Social Work, CSWP Specialization, Infant, Child and Adolescent Mental Health  
**OR** Social Work, CSWP Specialization, Trauma Informed Practice  
**OR** Social Work, CSWP Specialization, Clinical Gerontology Practice

**OR Social Work, CSWP Specialization, Community Informed Practice for Health and Wellbeing**

**Additional Comments:**

#### **Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

Advanced credit is not awarded toward a graduate certificate.

### **Flexible Grade Option (CG Grade)**

The Faculty of Social Work will allow students in the Graduate Certificates in Social Work to pursue the **Flexible Grade Option (CG Grade)** for graduate courses offered by the Faculty. Students may receive a grade of CG only once, for a total of 3 units, regardless of the number of graduate certificates they complete. In addition, students may receive a grade of CG only once throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### **Concurrent Program Enrolment**

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

### **Withdrawal**

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### **Time Limit**

The expected completion time is eight months for any of the graduate certificates. Maximum completion time is two years.

Students taking graduate certificates as part of the ladder pathway to the MSW (course-based) degree program must apply to ladder into the MSW within five years from the start of their first graduate certificate in the ladder sequence.

#### **Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Students enrolled in a Graduate Certificate in Social Work are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for some program recommended awards. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## **Overview**

### **General Program Information**

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

## UCalgary

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The course-based program is appropriate for students who intend to provide direct service in the field. This program is available for both BSW graduates and graduates from other disciplines.

### Specializations:

- Clinical Social Work Practice (CSWP)
- MSWC Inter
- Social Wor

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## Program Delivery

The MSW course-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

The course-based MSW is a continuous, full-time program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are an approved leave of absence.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-msw-course>.

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In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

f) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide rationale in the application.

For those applying to the MSW through the MSW Laddering Pathway (upon completion of two specific Graduate Certificates), the academic reference must come from an instructor who taught the applicant in one of the Graduate Certificates.

MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in Student Orientation sessions held prior to the start of the program is mandatory for students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work.**

Nine foundation courses (27 units), as follows:

**Enroll in the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

Foundation courses must be completed before students advance to Specialization specific courses and Advanced Practicum (Social Work 660 and 662).

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a BSW or completed foundation courses:**

A total of 36 units of coursework, as follows:

a) 12 units of Advanced Social Work Practice courses;

b) 12 units of Specialization courses (topics may vary from year to year and by location);

- Within the CSWP specialization there are several topic areas. Each consists of 12 units (four courses) which address a particular subject within the broader field of Clinical Social Work Practice. Students must complete all 12 units in the selected topic area.

c) 12 units of Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE).

- Students must be available to complete 500 hours of practicum. This represents a significant time commitment. Students must ensure that they are aware of field requirements, and available for field placements as scheduled, in order to complete their practicum within the appropriate term.
- Practicum hours are typically completed in-person, during regular business hours and close to the student's home community anywhere in Canada. International practicums may be an option for interested MSW students only in the International and Community Development specialization in their Advanced Practicum. This will be dependent on the location, scope of practice, timeframe, and supervision availability.
- A student who fails or withdraws from a practicum course (Social Work 660 or 662) will fail or be required to withdraw from the co-requisite courses (Social Work 660 or 662). In addition, the student may be required to withdraw from the program.

**Enroll in the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, CSWP Specialization, Adult Mental Health and Addictions  
OR Social Work, CSWP Specialization, Individuals Families and Group  
OR Social Work, CSWP Specialization, Infant, Child and Adolescent Mental Health  
OR Social Work, CSWP Specialization, Trauma Informed Practice  
OR Social Work, CSWP Specialization, Community Informed Practice for Health and Wellbeing
- MSW, Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE)

The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed.

Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of Specialization topics: <https://socialwork.ucalgary.ca/>.

#### Additional Comments:

#### Transfer to a Thesis-Based MSW

Note: Students who wish to transfer to the thesis-based MSW must submit their transfer request to Student Services by January 31 prior to the thesis research courses and/or advanced practicum. Students who transfer must comply with the requirements of the respective program. The program transfer must be approved by both the Faculty of Social Work and Faculty of Graduate Studies.

\*Course-based MSW students with a non-BSW degree who receive credit by special assessment (CSA) for the Foundational Field Practicum (Social Work 633) are not eligible to transfer to the thesis-based MSW.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced Credit is not normally granted for the Master of Social Work degree.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Master of Social Work course-based program will allow students to pursue the Flexible Grade Option (CG Grade) in one graduate course offered by the faculty, with the exception of SOWK633 Foundational Field Practicum, SOWK660 Advanced Practicum and SOWK662 Integrative Seminar.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

## Time Limits

Expected completion time is two years for BSW graduates and three years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see [Time Limits](#)) maximum completion time is six years for a course-based MSW.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The thesis-based route may be appropriate for students who intend to proceed to doctoral studies and/or anticipate a career requiring advanced program evaluation or research skills. This full-time program is available for both BSW graduates and graduates from other disciplines.

### Specializations:

- Clinical Social Work Practice (CSWP)
- [MSWT Inter](#)
- [Social Wor](#)

## Program Delivery

The MSW thesis-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

Web page URL: <https://socialwork.ucalgary.ca/>

Email address: <mailto:fsw.studentservices@ucalgary.ca>

## Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

## Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/social-work-master-social-work-thesis-based>.

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In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized/accredited post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) A thesis proposal providing a rationale for selecting the thesis route and a preliminary research proposal describing the research problem to be investigated and the proposed research methodologies (e.g., quantitative, qualitative, mixed methods, participatory action research, arts-based, etc.), and the study's potential contribution to social work research and practice. Students applying to the thesis route are strongly encouraged to discuss this option with the PhD/MSW Thesis Program Coordinator.

f) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and B+ in other courses.

g) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide a rationale in the application.

**Note:** MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

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Participation in student orientation sessions held prior to the start of the program is mandatory for incoming students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

#### For students with a bachelor's degree in a discipline other than social work:

Nine foundation courses (27 units), as follows:

#### Complete ALL of the following Course Sets:

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

\*Foundation students in the thesis-based MSW are not eligible for credit by special assessment.

Foundation courses must be completed before students advance to specialization-specific courses and the two research courses (Social Work 670 and 672).

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

#### For Students with a BSW or completed foundation courses:

A total of 30 units of coursework. The coursework consists of:

- 12 units of Advanced Social Work Practice courses;
- 12 units of specialization courses (topics may vary from year to year and by location);
  - Within the CSWP specialization, there are several topic areas. Each consists of 12 units (four courses) which address a particular subject within the broader field of Clinical Social Work Practice. Students must complete all four courses in the selected topic area.
- 6 units of research courses.

#### Enroll in the following Course Sets:

- Advanced Social Work Practice Courses (ASWP)
- Social Work, CSWP Specialization, Adult Mental Health and Addictions  
**OR** Social Work, CSWP Specialization, Individuals Families and Group  
**OR** Social Work, CSWP Specialization, Infant, Child and Adolescent Mental Health  
**OR** Social Work, CSWP Specialization, Trauma Informed Practice  
**OR** Social Work, CSWP Specialization, Community Informed Practice for Health and Wellbeing
- Social Work, MSW, Research Courses

**Note:** The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed. Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of specialization topics: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca).

All four ASWP courses and all four specialization courses are prerequisites to Social Work 670 and 672 (research courses).

#### Additional Comments:

Students may elect to complete [SOWK660 Advanced Practicum](#) Advanced Practicum, but it is not a mandatory component of the thesis-based degree. Students who wish to complete Social Work 660 must have completed all the ASWP, specialization and research courses and must declare their intention to pursue a Practicum in writing to the Director of Field Education by March

1st of their final year of coursework (6-8 months prior to the expected start of the Practicum). The integrative Seminar (Social Work 662) is for course-based MSW students only.

#### **Transfer to a Course-based MSW**

Normally students who begin the MSW thesis program and then want to switch to the course-based MSW may be able to do so prior to beginning the thesis research courses and at least 8 months prior to the start of Advanced Practicum.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

**Advanced Credit** is not normally granted for the Master of Social Work degree.

#### **Flexible Grade Option (CG Grade)**

The Faculty of Social Work Master of Social Work thesis-based program will allow students to pursue the **Flexible Grade Option (CG Grade)** in graduate courses offered by the faculty, with the exception of **SOWK633 Foundational Field Practicum**, **SOWK660 Advanced Practicum**, **SOWK670 Adv Method Epistemology SOWK** and **SOWK672 Thesis Research Development**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### **Concurrent Program Enrolment**

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

#### **Withdrawal**

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

#### **Credit for Undergraduate Courses**

Credit for undergraduate courses will not be awarded.

#### **Time Limit**

Expected completion time is three years for BSW graduates and four years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see **Time Limits**), maximum completion time is four years for a thesis-based MSW (for both BSW degree holders and non-BSW degree holders).

#### **Supervisory Assignments, Research Proposal and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

For incoming MSW thesis students, the PhD/MSW Thesis Coordinator will act as the interim supervisor. Before the end of April of the first year, each student must designate a faculty member as permanent supervisor. MSW thesis students will work with their supervisors to determine if a co-supervisor and/or supervisory thesis committee is preferred. This decision should be made prior to start of Social Work 670. The arrangement must be approved by the Graduate Program Director.

Within the first two months of working together, MSW thesis students and their interim and/or permanent supervisors are required to complete and submit to Student Services in the Faculty of Social Work the signed Student-Supervisor checklist and the Intellectual Property checklist. These become part of the student's permanent record. If a change occurs in supervision, a new Student-Supervisor checklist must be completed, signed and submitted to Student Services within two months of the change.

## Research Proposal Requirements

Students must have proposal approved by their supervisor and/or committee (if appropriate). A copy of the proposal becomes part of the student's record with the Faculty of Social Work. Once the proposal has been approved, students can proceed with applying for ethics certification.

## Required Examinations

### MSW Thesis Examination

The final examination for the thesis-based MSW involves an oral defence of the thesis. The thesis examination is conducted by the student's examining committee, which must be declared at least one month before the oral examination.

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following MSW examining committee composition:

- thesis supervisor, and, if applicable, co-supervisor/supervisory thesis committee,
- a faculty member from the Faculty of Social Work, and
- an Internal Examiner (external to the Faculty of Social Work).

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

### Contact Information

Location: MacKimmie Tower 301

Dean's Office: 403.220.5945

Dean's Office Email: [fswdean@ucalgary.ca](mailto:fswdean@ucalgary.ca)

Student Services Email: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

Website: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca)

## Introduction

### International Definition of Social Work

"Social work is a practice-based profession and an academic discipline that promotes social change and development, social cohesion, and the empowerment and liberation of people. Principles of social justice, human rights, collective responsibility and respect for diversities are central to social work. Underpinned by theories of social work, social sciences, humanities and Indigenous knowledge, social work engages people and structures to address life challenges and enhance wellbeing."  
([ifsw.org/get-involved/global-definition-of-social-work](http://ifsw.org/get-involved/global-definition-of-social-work))

# UCalgary

## Faculty of Social Work Vision

Wellbeing, sustainability, and social justice.

## Faculty of Social Work Mission

Be a local and global partner in transformative social work knowledge, education, research, and practice.

For more information, visit [A Place to Gather](#), the Faculty of Social Work 2022-2027 Strategic Plan.

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## Objectives

In addition to aligning with faculty's strategic plan, the program is grounded in the Code of Ethics and Standards of Practice of the social work profession, and the national Accreditation Standards for schools of social work.

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## Professional Conduct

The study of social work practice places students in a position of special trust with professional social workers and their clients. The Faculty recognizes that social work education occurs both inside and outside the classroom and has the responsibility to ensure that its graduates are competent and ethical. Students are expected to comply with all university policies and regulations in addition to professional standards for the Social Work profession as outlined by the Canadian Association for Social Workers, Code of Ethics (2005): [https://www.casw-acts.ca/files/attachements/casw\\_code\\_of\\_ethics.pdf](https://www.casw-acts.ca/files/attachements/casw_code_of_ethics.pdf) and the Alberta College of Social Work Standards of Practice (2019): <https://acsw.ab.ca/site/practice-resources>.

Students are expected to be both familiar and compliant with these standards.

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## Opportunities

The BSW program provides students with the foundational knowledge and integrated learning, including supervised diverse practice settings. Students are prepared to work in fields of practice such as mental health, addictions, social policy, social welfare services for children and families, community development, corrections, and health. Upon graduation, students fulfill the academic requirements to begin the required registration process with the province or territory where they choose to practice professional social work.

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## Social Work Students' Association

The Social Work Students' Association (SWSA) is actively involved in the governance of the Faculty, with representatives on Faculty Council and Faculty committees. SWSA is an active advocate of student interests and issues, and a sponsor of social events for educational and charitable causes. SWSA is active at all three campuses and all students in the faculty are eligible for membership.

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## Locations

### Calgary Campus

MacKimmie Tower, Room 301

Program number (undergraduate): 403.220.2124; 403.220.5430; 1.877.220.0667

Program number (graduate): 403.220.6208; 403.220.3489; 1.877.220.6945

Fax: 403.282.7269

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

### Edmonton Campus

3-250, 10230 Jasper Avenue

Edmonton, AB

T5J 4P6

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

### Lethbridge Campus

4401 University Drive

# UCalgary

Lethbridge, AB

T1K 3M4

Program number: 403.329.2794; 1.866.329.2794

Fax: 403.329.2787

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

## Admissions

### Program Admissions Information

For Faculty of Social Work admission information see [3.1 Admissions](#).

## Program Details

### Simple Requisites

#### Faculty of Social Work Regulations

##### Type

Completion Requirement

Faculty of Social Work Regulations

For Faculty of Social Work degree requirements refer to:

##### Enroll in the following Requirement Sets:

- Bachelor of Social Work - Graduation Requirements
- Bachelor of Social Work - Graduation "With Distinction"

For other regulations related to the Bachelor of Social Work program see [3. Faculty of Social Work Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

Students are required to complete a total of 60 units consisting of:

##### Earn at least 60 credits from the following:

- 30 units of Social Work required courses, including: Social Work 310, 322, 427, 428, 429, 436, 437, 590, 592
- 9 units of Social Work option courses at 500 level
- 15 units of non-Social Work courses
- 6 units from Interprofessional Practice in Health Education 501 and 503

##### Notes:

- All required 300- and 400-level Social Work courses (21 units) must be completed prior to registering in Social Work 590.
- If students have completed additional University of Calgary transferable courses outside those required for the diploma, it is the student's responsibility to request the transfer of credits for those additional courses at the time of admission.

#### Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Bachelor of Social Work - Minor Field and Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

## *Admission to this program is suspended*

## Contact Information

Location: MacKimmie Tower 301

Dean's Office: 403.220.5945

Dean's Office Email: [fswdean@ucalgary.ca](mailto:fswdean@ucalgary.ca)

Student Services Email: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

Website: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca)

## Introduction

The Community-Based Learning Circles and the Virtual Learning Circles (online) BSW provide an undergraduate curriculum that is culturally and geographically relevant. Course content is innovative and aligned with traditional philosophies and knowledge systems. Community collaboration and flexible delivery methods are key features of these programs.

Students in the Community-Based Learning Circles must be available to attend course offerings in Alberta communities where the Community-Based Learning Circles are being offered.

The Virtual Learning Circles program delivers the curriculum through a blended learning approach, integrating online learning with some in-person classes in Calgary or Edmonton. Students must have reliable online access and be able to travel to Calgary for an annual 5-day residency in both years. For more information on this program consult Student Services in Calgary or the Faculty's website: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca).

## International Definition of Social Work

"Social work is a practice-based profession and an academic discipline that promotes social change and development, social cohesion, and the empowerment and liberation of people. Principles of social justice, human rights, collective responsibility and respect for diversities are central to social work. Underpinned by theories of social work, social sciences, humanities and Indigenous knowledge, social work engages people and structures to address life challenges and enhance wellbeing." ([ifsw.org/get-involved/global-definition-of-social-work](http://ifsw.org/get-involved/global-definition-of-social-work)).

### Faculty of Social Work Vision

Wellbeing, sustainability, and social justice.

### Faculty of Social Work Mission

Be a local and global partner in transformative social work knowledge, education, research, and practice.

For more information, visit [A Place to Gather](#), the Faculty of Social Work 2022-2027 Strategic Plan.

## Objectives

In addition to aligning with faculty's strategic plan, The program is grounded in the Code of Ethics and Standards of Practice of the social work profession, and the national accreditation standards for schools of social work.

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## Opportunities

The BSW program provides students with the professional knowledge, theory, and skills of social work including a wide range of experiential opportunities to integrate this learning in supervised practice settings. Upon graduation, students are prepared to practice as generalist social workers in a wide variety of social welfare fields in a continuously changing world. Areas of practice may include child welfare, family violence, community development, health, gerontology, mental health and addictions, social policy development, and working with individuals, families, groups, organizations, and communities.

### Social Work Students' Association

The Social Work Students' Association (SWSA) is actively involved in the governance of the Faculty, with representatives on Faculty Council and Faculty committees. SWSA is an active advocate of student interests and issues, and a sponsor of social events for educational and charitable causes. SWSA is active at all three campuses and all students in the faculty are eligible for membership.

---

## Professional Conduct

The study of social work practice places students in a position of special trust with professional social workers and their clients. The Faculty recognizes that social work education occurs both inside and outside the classroom and has the responsibility to ensure that its graduates are competent and ethical. Students are expected to comply with all university policies and regulations in addition to professional standards for the Social Work profession as outlined by the Canadian Association for Social Workers, Code of Ethics (2005): [casw-acts.ca/files/attachements/casw\\_code\\_of\\_ethics.pdf](https://casw-acts.ca/files/attachements/casw_code_of_ethics.pdf) and the Alberta College of Social Work Standards of Practice (2019): [acsw.ab.ca/site/practice-resources](https://acsw.ab.ca/site/practice-resources).

Students are expected to be both familiar and compliant with these standards.

---

## Locations

### Calgary Campus

MacKimmie Tower, Room 301

Program number (undergraduate): 403.220.2124; 403.220.5430; 1.877.220.0667

Program number (graduate): 403.220.6208; 403.220.3489; 1.877.220.6945

Fax: 403.282.7269

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

### Edmonton Campus

3-250, 10230 Jasper Avenue

Edmonton, AB

T5J 4P6

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

### Lethbridge Campus

4401 University Drive

Lethbridge, AB

T1K 3M4

Program number: 403.329.2794; 1.866.329.2794

Fax: 403.329.2787

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

## Admissions

## ***Admission to this program is suspended***

For Faculty of Social Work admission information see [3.1 Admissions](#).

### **Program Details**

#### **Simple Requisites**

##### **Faculty of Social Work Regulations**

###### **Type**

Completion Requirement

Faculty of Social Work Regulations

For Faculty of Social Work degree requirements refer to:

###### **Enroll in the following Requirement Sets:**

- Bachelor of Social Work - Graduation Requirements
- Bachelor of Social Work - Graduation "With Distinction"

For other regulations related to the Bachelor of Social Work program see [3. Faculty of Social Work Regulations](#).

##### **Additional Comments:**

##### **Program Requirements**

###### **Type**

Completion Requirement

Students are required to complete a total of 60 units in the following configuration:

###### **Earn at least 60 credits from the following:**

- 45 units of social work required courses, including: Social Work 300, 301, 302, 303, 304, 305, 306, 307, 412, 413
- 15 units of non-Social Work courses

**Note:** All required 300-level Social Work courses and non-Social Work courses must be completed prior to registering in Social Work 412.

##### **Additional Comments:**

##### **Degree Options**

###### **Type**

Completion Requirement

Degree Options

To complete an optional enhancement to this degree program, refer to:

###### **Complete ANY of the following Requirement Sets:**

- Bachelor of Social Work - Minor Field and Embedded Certificates

##### **Additional Comments:**

## Overview

### General Program Information

**Graduate Certificates in Social Work** serve as stand-alone credentials for practicing social workers who seek formal professional development opportunities in their field or provide practicing social workers a flexible option to pursue the MSW degree.

Students may complete a given certificate only once. Repeating the same certificate is not permitted. Not all Graduate Certificates and specializations are offered every year. For availability, consult the Faculty of Social Work [website](#).

---

### Program Delivery

The certificates are completed full-time and courses are offered by distance (online) learning. Most require virtual and/or in-person residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Note: International students admitted to a Graduate Certificate with a mandatory in-person campus residency must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program.

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### Specializations (ICD):

- International Social Development
- Community Development

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### Laddered Pathway from Graduate Certificates to MSW

Students who complete the Graduate Certificate in International and Community Development (ICD) and one of: **GCERT Adva**, **GCERT Clin** or **Social Wor** may apply to the Master of Social Work (course-based) program. See [LADMSWCB](#).

---

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-cert>

Students who wish to complete two successive certificates through a ladder pathway into the MSW (course-based) degree must apply to each certificate and the MSW (a total of three applications) and will receive each credential upon its successful completion.

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In addition to the Faculty of Graduate Studies' [admission](#) requirements, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized\* institution. The degree must be awarded prior to the start of the Graduate Certificate.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council of Social Work Education (CSWE), and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) For applicants required to present proof of proficiency in English: a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and

speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

**Note:** Once admitted, students are not permitted to switch specializations within the chosen certificate. Requests to defer an offer of admission are not normally considered.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

The Graduate Certificate consists of 12 units of coursework. Course requirements are determined by the specialization.

**Complete ANY of the following Course Sets:**

- Social Work, ICD Specialization, International Social Development  
**OR** Social Work, ICD Specialization, Community Development

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced credit is not awarded toward a graduate certificate.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work will allow students in the Graduate Certificates in Social Work to pursue the **Flexible Grade Option (CG Grade)** for graduate courses offered by the Faculty. Students may receive a grade of CG only once, for a total of 3 units, regardless of the number of graduate certificates they complete. In addition, students may receive a grade of CG only once throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Time Limit

The expected completion time is eight months for any of the graduate certificates. Maximum completion time is two years.

Students taking graduate certificates as part of the laddered pathway to the MSW (course-based) degree program must apply to ladder into the MSW within five years from the start of their first graduate certificate in the laddering sequence.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students enrolled in a Graduate Certificate in Social Work are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The course-based program is appropriate for students who intend to provide direct service in the field. This full-time program is available for both BSW graduates and graduates from other disciplines.

### Specializations:

- International and Community Development (ICD)
- [MSWC Clini](#)
- [Social Wor](#)

## Program Delivery

The MSW course-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

The course-based MSW is a continuous, full-time program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are an approved leave of absence.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

# UCalgary

## Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-msw-course>.

In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

f) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide rationale in the application.

For those applying to the MSW through the MSW Laddering Pathway (upon completion of two specific Graduate Certificates), the academic reference must come from an instructor who taught the applicant in one of the Graduate Certificates.

MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in Student Orientation sessions held prior to the start of the program is mandatory for students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work.**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

Foundation courses must be completed before students advance to Specialization specific courses and Advanced Practicum (Social Work 660 and 662).

In addition to Faculty of Graduate Studies requirements, the Faculty of Social Work requires:

**For students with a BSW or completed foundation courses:**

A total of 36 units of coursework, as follows:

- a) 12 units of Advanced Social Work Practice courses;
- b) 12 units of Specialization courses (topics may vary from year to year and by location);
  - Within the ICD specialization, there are two topic areas. Each consists of 12 units (four courses) which address a particular subject within the broader field of International and Community Development. Students must complete 12 units in the selected topic area.
- c) 12 units of Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE).
  - Students must be available to complete 500 hours of practicum. This represents a significant time commitment. Students must ensure that they are aware of field requirements, and available for field placements as scheduled, in order to complete their practicum within the appropriate term.
  - Practicum hours are typically completed in-person, during regular business hours and close to the student's home community anywhere in Canada. International practicums may be an option for interested MSW students only in the International and Community Development specialization in their Advanced Practicum. This will be dependent on the location, scope of practice, timeframe, and supervision availability.
  - A student who fails or withdraws from a practicum course (Social Work 660 or 662) will fail or be required to withdraw from the co-requisite courses (Social Work 660 or 662). In addition, the student may be required to withdraw from the program.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, ICD Specialization, International Social Development  
OR Social Work, ICD Specialization, Community Development
- MSW, Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE)

The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed.

Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of Specialization topics: <https://socialwork.ucalgary.ca/>.

#### Additional Comments:

##### Transfer to a Thesis-Based MSW

Note: Students who wish to transfer to the thesis-based MSW must submit their transfer request to Student Services by January 31 prior to the thesis research courses and/or advanced practicum. Students who transfer must comply with the requirements of the respective program. The program transfer must be approved by both the Faculty of Social Work and Faculty of Graduate Studies.

\*Course-based MSW students with a non-BSW degree who receive credit by special assessment (CSA) for the Foundational Field Practicum (Social Work 633) are not eligible to transfer to the thesis-based MSW.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit is not normally granted for the Master of Social Work degree.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Master of Social Work course-based program will allow students to pursue the Flexible Grade Option (CG Grade) in one graduate course offered by the faculty, with the exception of SOWK633 Foundational Field Practicum, SOWK660 Advanced Practicum and SOWK662 Integrative Seminar.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section G.D.1.3 Concurrent Program Enrolment.

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

### Time Limits

Expected completion time is two years for BSW graduates and three years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see Time Limits) maximum completion time is six years for a course-based MSW.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see Awards and Financial Assistance for Graduate Students, the Graduate Awards Database, and consult with the Student Services Office in the Faculty of Social Work.

## Overview

#### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The thesis-based route may be appropriate for students who intend to proceed to doctoral studies and/or anticipate a

career requiring advanced program evaluation or research skills. This full-time program is available for both BSW graduates and graduates from other disciplines.

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### Specializations:

- International and Community Development (ICD)
- MSWT Clini
- Social Wor

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### Program Delivery

The MSW thesis-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

#### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

#### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

### Admissions

#### Program Admissions Information

For application deadlines, see the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/social-work-master-social-work-thesis-based>.

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In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized/accredited post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) A thesis proposal providing a rationale for selecting the thesis route and a preliminary research proposal describing the research problem to be investigated and the proposed research methodologies (e.g., quantitative, qualitative, mixed methods, participatory action research, arts-based, etc.), and the study's potential contribution to social work research and practice. Students applying to the thesis route are strongly encouraged to discuss this option with the PhD/MSW Thesis Program Coordinator.

f) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in academic writing and oral communication courses and B+ in other courses.

g) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide a rationale in the application.

**Note:** MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in student orientation sessions held prior to the start of the program is mandatory for incoming students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work:**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

\*Foundation students in the thesis-based MSW are not eligible for credit by special assessment.

Foundation courses must be completed before students advance to specialization-specific courses and the two research courses (Social Work 670 and 672).

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Social Work requires:

**For Students with a BSW or completed foundation courses:**

A total of 30 units of coursework. The coursework consists of:

a) 12 units of Advanced Social Work Practice courses;

b) 12 units of specialization courses (topics may vary from year to year and by location);

- Within the ICD specialization, there are two topic areas. Each consists of 12 units (four courses) which address a particular subject within the broader field of International and Community Development. Students must complete all four courses in the selected topic area.

c) 6 units of research courses.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, ICD Specialization, International Social Development  
OR Social Work, ICD Specialization, Community Development
- Social Work, MSW, Research Courses

**Note:** The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed. Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of specialization topics: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca).

All four ASWP courses and all four specialization courses are prerequisites to Social Work 670 and 672 (research courses).

#### Additional Comments:

Students may elect to complete **SOWK660 Advanced Practicum** Advanced Practicum, but it is not a mandatory component of the thesis-based degree. Students who wish to complete Social Work 660 must have completed all the ASWP, specialization and research courses and must declare their intention to pursue a Practicum in writing to the Director of Field Education by March 1st of their final year of coursework (6-8 months prior to the expected start of the Practicum). The Integrative Seminar (Social Work 662) is for course-based MSW students only.

#### **Transfer to a Course-based MSW**

Normally students who begin the MSW thesis program and then want to switch to the course-based MSW may be able to do so prior to beginning the thesis research courses and at least 8 months prior to the start of Advanced Practicum.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

**Advanced Credit** is not normally granted for the Master of Social Work degree.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work Master of Social Work thesis-based program will allow students to pursue the **Flexible Grade Option (CG Grade)** in graduate courses offered by the faculty, with the exception of **SOWK633 Foundational Field Practicum**, **SOWK660 Advanced Practicum**, **SOWK670 Adv Method Epistemology SOWK** and **SOWK672 Thesis Research Development**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

### Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

### Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

## Time Limit

Expected completion time is three years for BSW graduates and four years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see [Time Limits](#)), maximum completion time is four years for a thesis-based MSW (for both BSW degree holders and non-BSW degree holders).

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

For incoming MSW thesis students, the PhD/MSW Thesis Coordinator will act as the interim supervisor. Before the end of April of the first year, each student must designate a faculty member as permanent supervisor. MSW thesis students will work with their supervisors to determine if a co-supervisor and/or supervisory thesis committee is preferred. This decision should be made prior to start of Social Work 670. The arrangement must be approved by the Graduate Program Director.

Within the first two months of working together, MSW thesis students and their interim and/or permanent supervisors are required to complete and submit to Student Services in the Faculty of Social Work the signed Student-Supervisor checklist and the Intellectual Property checklist. These become part of the student's permanent record. If a change occurs in supervision, a new Student-Supervisor checklist must be completed, signed and submitted to Student Services within two months of the change.

## Research Proposal Requirements

Students must have proposal approved by their supervisor and/or committee (if appropriate). A copy of the proposal becomes part of the student's record with the Faculty of Social Work. Once the proposal has been approved, students can proceed with applying for ethics certification.

## Required Examinations

### MSW Thesis Examination

The final examination for the thesis-based MSW involves an oral defence of the thesis. The thesis examination is conducted by the student's examining committee, which must be declared at least one month before the oral examination.

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following MSW examining committee composition:

- thesis supervisor, and, if applicable, co-supervisor/supervisory thesis committee,
- a faculty member from the Faculty of Social Work, and
- an Internal Examiner (external to the Faculty of Social Work).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

# UCalgary

## General Program Information

The MSW Laddered Pathway is designed for BSW graduates.

Students entering the course-based MSW through the laddered pathway must apply to and complete the **GCERT Adva** (12 units) and apply to and complete one of the certificates: **GCERT Clin**, **GCERT Inte**, or **Social Wor** (12 units) in any order. Admission to the MSW program is not guaranteed. Upon acceptance to the MSW, students complete the final component (12 units) of this full-time degree.

The course-based MSW is a continuous full-time program with no scheduled break. Students who do not enroll in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

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## Program Delivery

The final courses are offered by distance (online) learning with required virtual and/or in-person campus residencies in Calgary. Failure to attend residencies may result in a student being withdrawn from the course(s) or program. Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit and a valid work permit for their practica in Canada. The valid study permit must be presented to Student Services prior to the program start and the valid work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-msw-course>.

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In addition to the **admission** requirements of the Faculty of Graduate Studies, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized institution\* with a minimum grade point average of 3.00 on a four-point scale.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) Completion of two graduate certificates: Certificate in Advanced Social Work Practice and one of the certificates in Clinical Social Work Practice, International and Community Development or Leadership in the Human Services, offered through the Faculty of Social Work.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) Two references, one academic and one professional. The academic reference must come from an instructor who taught the applicant in one of the Graduate Certificates.

Note: Students must apply to the course-based MSW degree within five years from the beginning of their first graduate certificate in Social Work. Requests to defer an offer of admission are not normally considered.

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Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

Students entering the MSW through the ladder pathway are admitted to the Fall term and complete 12 units over the Fall and Winter terms:

**Complete ALL of the following Course Sets:**

- MSW, Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE)

A student who fails or withdraws from a practicum course (Social Work 660 or 662) will fail or be required to withdraw from the co-requisite courses (Social Work 660 or 662). In addition, the student may be required to withdraw from the program.

For Social Work 660, students are required to complete a 500-hour practicum. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community anywhere in Canada. International practicums may be an option for interested MSW students only in the International and Community Development specialization. This will be dependent on the location, scope of practice, timeframe, and supervision availability. Students may negotiate a part-time (20 hours per week minimum) or a full-time (40 hours per week maximum) practicum with the agency/supervisor and with approval of the Field Education Office.

At the same time, students will be required to complete Social Work 662 and attend all related online learning and in-person campus residencies in Calgary or Edmonton, and submit assignments in both Fall and Winter terms, regardless of their practicum schedule or timeline.

See [GCERT Adva](#), [GCERT Clin](#), [GCERT Inte](#), and [Social Wor](#) for more information.

#### Additional Comments:

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Students entering the MSW through the ladder pathway receive credit for 24 units completed in the two certificate programs.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Master of Social Work course-based program will allow students to pursue the **Flexible Grade Option (CG Grade)** in up to one graduate course offered by the faculty, with the exception of: [SOWK660 Advanced Practicum](#) and [SOWK662 Integrative Seminar](#).

Students enrolled in the ladder pathway may only have a grade of CG for a total of 3 units throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

## Time Limits

Expected completion time in the MSW Laddering Pathway is three years (all three stages). The maximum completion time for all ladderred credentials is six years from the start of the first credential in the laddering process.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

**Graduate Certificates in Social Work** serve as stand-alone credentials for practicing social workers who seek formal professional development opportunities in their field or provide practicing social workers a flexible option to pursue the MSW degree.

Students may complete a given certificate only once. Repeating the same certificate is not permitted. Not all Graduate Certificates and specializations are offered every year. For availability, consult the Faculty of Social Work [website](#).

### Program Delivery

The certificates are completed full-time and courses are offered by distance (online) learning. Most require virtual and/or in-person residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Note: International students admitted to a Graduate Certificate with a mandatory in-person campus residency must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program.

### Specializations (LHS):

- Indigenous Ways of Knowing in Leadership
- The Practical and Transformational Leader

### Laddered Pathway from Graduate Certificates to MSW

Students who complete the Graduate Certificate in Leadership in the Human Services (LHS) and one of: [GCERT Adva](#), [GCERT Inte](#) or [GCERT Clin](#) may apply to the Master of Social Work (course-based) program. See [LADMSWCB](#).

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-cert>

Students who wish to complete two successive certificates through a ladder pathway into the MSW (course-based) degree must apply to each certificate and the MSW (a total of three applications) and will receive each credential upon its successful completion.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree from an accredited/recognized\* institution. The degree must be awarded prior to the start of the Graduate Certificate.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council of Social Work Education (CSWE), and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) For applicants required to present proof of proficiency in English: a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

**Note:** Once admitted, students are not permitted to switch specializations within the chosen certificate. Requests to defer an offer of admission are not normally considered.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

The Graduate Certificate consists of 12 units of coursework. Course requirements are determined by the specialization.

**Complete ANY of the following Course Sets:**

- Social Work, LHS Certificate, The Practical and Transformational Leader Specialization
- Social Work, LHS Certificate, Indigenous Ways of Knowing in Leadership Specialization

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

Advanced credit is not awarded toward a graduate certificate.

## Flexible Grade Option (CG Grade)

The Faculty of Social Work will allow students in the Graduate Certificates in Social Work to pursue the **Flexible Grade Option (CG Grade)** for graduate courses offered by the Faculty. Students may receive a grade of CG only once, for a total of 3 units, regardless of the number of graduate certificates they complete. In addition, students may receive a grade of CG only once throughout the entire ladder pathway.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section **G.D.1.3 Concurrent Program Enrolment**.

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Time Limit

The expected completion time is eight months for any of the graduate certificates. Maximum completion time is two years.

Students taking graduate certificates as part of the ladder pathway to the MSW (course-based) degree program must apply to ladder into the MSW within five years from the start of their first graduate certificate in the laddering sequence.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Students enrolled in a Graduate Certificate in Social Work are not eligible for University of Calgary awards administered through the Graduate Awards Competition but may be eligible for program recommended awards. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The course-based program is appropriate for students who intend to provide direct service in the field. This full-time program is available for both BSW graduates and graduates from other disciplines.

#### Specializations:

- Leadership in the Human Services (LHS)
- **MSWC Inter**
- **MSWC Clini**

## Program Delivery

The MSW course-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

The course-based MSW is a continuous, full-time program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are an approved leave of absence.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

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Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <https://grad.ucalgary.ca/future-students/explore-programs/social-work-msw-course>.

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In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be awarded prior to the start of the MSW program and must be from a recognized post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

f) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide rationale in the application.

For those applying to the MSW through the MSW Laddering Pathway (upon completion of two specific Graduate Certificates), the academic reference must come from an instructor who taught the applicant in one of the Graduate Certificates.

MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in Student Orientation sessions held prior to the start of the program is mandatory for students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work.**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

Foundation courses must be completed before students advance to Specialization specific courses and Advanced Practicum (Social Work 660 and 662).

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a BSW or completed foundation courses:**

A total of 36 units of coursework, as follows:

a) 12 units of Advanced Social Work Practice courses;

b) 12 units of Specialization courses (topics may vary from year to year and by location);

- Students must complete all 12 units of LHS specialization courses.

c) 12 units of Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE).

- Students must be available to complete 500 hours of practicum. This represents a significant time commitment. Students must ensure that they are aware of field requirements, and available for field placements as scheduled, in order to complete their practicum within the appropriate term.
- Practicum hours are typically completed in-person, during regular business hours and close to the student's home community anywhere in Canada. International practicums may be an option for interested MSW students only in the International and Community Development specialization in their Advanced Practicum. This will be dependent on the location, scope of practice, timeframe, and supervision availability.
- A student who fails or withdraws from a practicum course (Social Work 660 or 662) will fail or be required to withdraw from the co-requisite courses (Social Work 660 or 662). In addition, the student may be required to withdraw from the program.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, LHS Certificate, The Practical and Transformational Leader Specialization
- MSW, Field Practicum, Integrative Seminar, Research Applications and Exit Requirement (FIRE)

The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed.

Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of Specialization topics: <https://socialwork.ucalgary.ca/>.

**Additional Comments:**

**Transfer to a Thesis-Based MSW**

Note: Students who wish to transfer to the thesis-based MSW must submit their transfer request to Student Services by January 31 prior to the thesis research courses and/or advanced practicum. Students who transfer must comply with the requirements of the respective program. The program transfer must be approved by both the Faculty of Social Work and Faculty of Graduate Studies.

\*Course-based MSW students with a non-BSW degree who receive credit by special assessment (CSA) for the Foundational Field Practicum (Social Work 633) are not eligible to transfer to the thesis-based MSW.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

Advanced Credit is not normally granted for the Master of Social Work degree.

**Flexible Grade Option (CG Grade)**

The Faculty of Social Work, Master of Social Work course-based program will allow students to pursue the Flexible Grade Option (CG Grade) in one graduate course offered by the faculty, with the exception of SOWK633 Foundational Field Practicum, SOWK660 Advanced Practicum and SOWK662 Integrative Seminar.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

**Concurrent Program Enrolment**

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section G.D.1.3 Concurrent Program Enrolment.

**Withdrawal**

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

**Credit for Undergraduate Courses**

Credit for undergraduate courses will not be awarded.

**Time Limits**

Expected completion time is two years for BSW graduates and three years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see [Time Limits](#)) maximum completion time is six years for a course-based MSW.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

The Master of Social Work program is accredited by the Canadian Association of Social Work Education.

The objective of the Master of Social Work (MSW) program is to prepare students for advanced professional practice in social work. The thesis-based route may be appropriate for students who intend to proceed to doctoral studies and/or anticipate a career requiring advanced program evaluation or research skills. This full-time program is available for both BSW graduates and graduates from other disciplines.

### Specializations:

- Leadership in the Human Services (LHS)
- [MSWT Inter](#)
- [MSWT Clini](#)

## Program Delivery

The MSW thesis-based program in all three specializations is offered by distance (online) learning with required virtual and in-person campus residencies in Calgary or Edmonton. Failure to attend residencies may result in a student being withdrawn from the course(s) or program.

Please consult the [website](#) for specific program delivery information.

Note: International students must present a valid study permit approval letter and/or study permit to Student Services in the Faculty of Social Work prior to the start of the program. They also must have a valid work permit for their practica (Social Work 663 and/or the optional Social Work 660) in Canada. The work permit must be presented to the Field Education Office in the Faculty of Social Work prior to the start of the practicum.

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

#### Calgary Campus:

MacKimmie Tower, Room 301

Program number: 403.220.5942; 1.877.220.6945

Fax: 403.282.7269

#### Edmonton Campus:

3-250, 10230 Jasper Avenue

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

## Admissions

### Program Admissions Information

For application deadlines, see the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/social-work-master-social-work-thesis-based>.

In addition to Faculty of Graduate Studies requirements for [admission](#), the Faculty of Social Work requires:

a) A Bachelor of Social Work (BSW) degree\* or a four-year bachelor's degree from another discipline. The undergraduate degree must be conferred prior to the start of the MSW program and must be from a recognized/accredited post-secondary institution.

*\*The Faculty of Social Work recognizes BSW and BISW degrees accredited by the Canadian Association for Social Work Education (CASWE), the Council on Social Work Education (CSWE) and international credentials deemed equivalent to a Canadian BSW degree by the Canadian Association of Social Workers (CASW).*

b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two-years of the undergraduate degree consisting of a minimum of 60 units.

c) The equivalent of two years of full-time paid work or a minimum of 3000 hours of paid and/or volunteer work in the human services field.

d) A program proposal outlining the applicant's social work perspectives and educational goals.

e) A thesis proposal providing a rationale for selecting the thesis route and a preliminary research proposal describing the research problem to be investigated and the proposed research methodologies (e.g., quantitative, qualitative, mixed methods, participatory action research, arts-based, etc.), and the study's potential contribution to social work research and practice. Students applying to the thesis route are strongly encouraged to discuss this option with the PhD/MSW Thesis Program Coordinator.

f) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and B+ in other courses.

g) Two references, one academic and one professional. Applicants unable to provide an academic reference are advised to submit a second professional reference and provide a rationale in the application.

**Note:** MSW applicants are allowed to apply to only one program location and one specialization. Once admitted, students are not permitted to switch specializations and/or topics within their chosen specialization. Requests to defer an offer of admission are not normally considered.

Participation in student orientation sessions held prior to the start of the program is mandatory for incoming students.

Access to an electronic device, such as a tablet or computer, is necessary.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For students with a bachelor's degree in a discipline other than social work:**

Nine foundation courses (27 units), as follows:

**Complete ALL of the following Course Sets:**

- MSW Foundation Courses

The foundational practicum course requires students to complete a minimum of 450 placement hours in the Winter semester of their first year. Practicum hours are typically completed in-person, during regular business hours and close to the student's home community, anywhere in Canada.

\*Foundation students in the thesis-based MSW are not eligible for credit by special assessment.

Foundation courses must be completed before students advance to specialization-specific courses and the two research courses (Social Work 670 and 672).

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

**For Students with a BSW or completed foundation courses:**

A total of 30 units of coursework. The coursework consists of:

- a) 12 units of Advanced Social Work Practice courses;
- b) 12 units of specialization courses (topics may vary from year to year and by location);
- c) 6 units of research courses.

**Complete ALL of the following Course Sets:**

- Advanced Social Work Practice Courses (ASWP)
- Social Work, LHS Certificate, The Practical and Transformational Leader Specialization
- Social Work, MSW, Research Courses

**Note:** The four courses in ASWP and in each specialization topic are offered in a prescribed sequence and deviation from the curriculum plan is not normally allowed. Please note that not all specialization topics are offered every year. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of specialization topics: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca).

All four ASWP courses and all four specialization courses are prerequisites to Social Work 670 and 672 (research courses).

**Additional Comments:**

Students may elect to complete [SOWK660 Advanced Practicum](#) Advanced Practicum, but it is not a mandatory component of the thesis-based degree. Students who wish to complete Social Work 660 must have completed all the ASWP, specialization and research courses and must declare their intention to pursue a Practicum in writing to the Director of Field Education by March 1st of their final year of coursework (6-8 months prior to the expected start of the Practicum). The Integrative Seminar (Social Work 662) is for course-based MSW students only.

**Transfer to a Course-based MSW**

Normally students who begin the MSW thesis program and then want to switch to the course-based MSW may be able to do so prior to beginning the thesis research courses and at least 8 months prior to the start of Advanced Practicum.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

[Advanced Credit](#) is not normally granted for the Master of Social Work degree.

**Flexible Grade Option (CG Grade)**

The Faculty of Social Work Master of Social Work thesis-based program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#) in graduate courses offered by the faculty, with the exception of [SOWK633 Foundational Field Practicum](#), [SOWK660 Advanced Practicum](#), [SOWK670 Adv Method Epistemology SOWK](#) and [SOWK672 Thesis Research Development](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladderized pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

## Withdrawal

Students who are required to withdraw from the program for academic reasons will not be subsequently admitted to any graduate program offered by the Faculty of Social Work.

## Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

## Time Limit

Expected completion time is three years for BSW graduates and four years for students with a non-BSW degree.

As established by the Faculty of Graduate Studies (see [Time Limits](#)), maximum completion time is four years for a thesis-based MSW (for both BSW degree holders and non-BSW degree holders).

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

For incoming MSW thesis students, the PhD/MSW Thesis Coordinator will act as the interim supervisor. Before the end of April of the first year, each student must designate a faculty member as permanent supervisor. MSW thesis students will work with their supervisors to determine if a co-supervisor and/or supervisory thesis committee is preferred. This decision should be made prior to start of Social Work 670. The arrangement must be approved by the Graduate Program Director.

Within the first two months of working together, MSW thesis students and their interim and/or permanent supervisors are required to complete and submit to Student Services in the Faculty of Social Work the signed Student-Supervisor checklist and the Intellectual Property checklist. These become part of the student's permanent record. If a change occurs in supervision, a new Student-Supervisor checklist must be completed, signed and submitted to Student Services within two months of the change.

### Research Proposal Requirements

Students must have proposal approved by their supervisor and/or committee (if appropriate). A copy of the proposal becomes part of the student's record with the Faculty of Social Work. Once the proposal has been approved, students can proceed with applying for ethics certification.

### Required Examinations

#### MSW Thesis Examination

The final examination for the thesis-based MSW involves an oral defence of the thesis. The thesis examination is conducted by the student's examining committee, which must be declared at least one month before the oral examination.

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following MSW examining committee composition:

- thesis supervisor, and, if applicable, co-supervisor/supervisory thesis committee,
- a faculty member from the Faculty of Social Work, and

- an Internal Examiner (external to the Faculty of Social Work).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see [Awards and Financial Assistance](#) for Graduate Students, the Graduate Awards [Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

### General Program Information

The PhD in Social Work is a research-based degree and is intended to graduate highly qualified social work researchers, administrative leaders, policy makers, and educators. The aim of developing such advanced scholarly and research skills is to equip doctoral students for future roles as leaders of the social work profession.

Please check the faculty's [website](#) to determine the program location for the year that you apply.

Program Number: 1.877.220.6945

Email Address: <mailto:fsw.studentservices@ucalgary.ca>

Web page URL: <https://socialwork.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students page: <http://ucalgary.ca/future-students/graduate/explore-programs/social-work-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies requirements for [Admission](#), the Faculty of Social Work requires the following:

- a) A Master of Social Work or equivalent graduate degree from a recognized institution with a minimum grade point average of 3.50 on a four-point scale.
- b) A program proposal outlining the applicant's social work perspectives, educational and research goals, which include the applicant's reasons for pursuing doctoral education in social work; educational goals and career expectations; prior research course work and research experience; and a research proposal outlining the research issue/problem the applicant hopes to investigate, the preliminary ideas regarding methodology, and the potential contributions to social work research, practice, policy, and education.
- c) A minimum of two years full-time post-master's social services practice experience.
- d) A sample of written work, such as a published or unpublished scholarly paper or a professional report.
- e) Two references, one of which should come from a person who can speak to the applicant's academic performance and ability, and one professional/work reference.
- f) For applicants required to present proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test with no section less than 20); IELTS score of 7.0 (Academic version with no section less than 6.0); a CAEL score of 70 (70 in writing and speaking; 60 in reading and listening); or a PTE with a minimum score of 68 (Academic version). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in academic writing and oral communication courses and "B+" in other courses.

Note: Completing a PhD degree does not qualify an individual to register with the Alberta College of Social Workers (ACSW). Please visit [ACSW website](#) for additional information.

Access to an electronic device, such as a tablet or computer, is necessary.

Requests to defer an offer of admission are not normally considered.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Social Work requires:

A minimum of 27 units of course work. Required core courses include:

**Complete ALL of the following Courses:**

- SOWK741 - Research Foundations: Epistemology and Professional Knowledge-Building  
**AND** SOWK743 - Theory, History and Philosophy: Values, Ethics and Professional Beliefs  
**AND** SOWK745 - Research Methods I: Quantitative  
**AND** SOWK747 - Research Methods II: Qualitative  
**AND** SOWK721 - Integrative Research Colloquia

**Note:** Social Work 721 can only be taken once all other required (core and elective) courses have been completed.

Twelve units of elective graduate courses relevant to the student's substantive area of research. Electives may be taken outside of the Faculty of Social Work, depending on the student's needs and course availability. All courses taken external to the Faculty of Social Work must have prior approval from the student's supervisor, the PhD co-ordinator and the Graduate Program Director in the Faculty of Social Work.

Please note that not all courses are offered every semester. Students should consult the timetables and program curriculum plans located on the web for sequence and availability of courses: <https://socialwork.ucalgary.ca/>.

#### Additional Comments:

Participation in student orientation sessions held prior to the start of the program is expected of students.

#### Other Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Request for **Advanced Credit** must be made as part of the application process. Credit will not be given for coursework taken as part of another completed degree/diploma or for courses taken to raise the grade point average for admission consideration. Advanced credit may be granted for not more than the equivalent of 9 units.

### Flexible Grade Option (CG Grade)

The Faculty of Social Work, Doctor of Philosophy (PhD) program will allow students to pursue the **Flexible Grade Option (CG Grade)** in doctoral courses offered by the faculty, with no exceptions.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Concurrent Program Enrolment

Students in this program may not concurrently pursue a certificate, diploma or the final step of a ladder pathway Master's degree as outlined in section [G.D.1.3 Concurrent Program Enrolment](#).

## Credit for Undergraduate Courses

Credit for undergraduate courses will not be awarded.

## Time Limit

As established by the Faculty of Graduate Studies (see [Time Limits](#)), maximum completion time is six years for a doctoral program. The expected completion time is four years for a PhD.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

For incoming PhD students, the PhD/MSW Thesis Coordinator will act as the interim supervisor in cases where one has not been identified. Before the end of April of the first year, each student must designate a faculty member as permanent supervisor. The supervisor and student must select a supervisory committee no later than three months after the appointment of the permanent supervisor or fifteen months after the initial registration. Doctoral supervisory committees typically consist of the supervisor and two other members, one of whom may be external to the Faculty of Social Work.

Within the first two months of working together, PhD students and their interim and/or permanent supervisors are required to complete and submit to Student Services in the Faculty of Social Work the signed Checklist of Expectations for Graduate Students and Supervisors and the Intellectual Property Awareness checklist. These become part of the student's permanent record. If a change occurs in supervision, a new Student-Supervisor checklist must be completed, signed and submitted to Student Services within two months of the change.

## Required Examinations

### Candidacy

Doctoral students must successfully complete all the required courses, their thesis research proposal and portfolio prior to the Written Field of Study Examination and Oral Field of Study Examination, which must be completed within 28 months of commencement of the program. For complete details of candidacy requirements, see the [Faculty of Social Work's Doctoral Candidacy Requirements](#).

### Thesis Examination

For the Faculty of Graduate Studies regulations, see [Thesis Examinations](#). In addition, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the Faculty of Social Work.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section, search the [Graduate Awards Database](#), and consult with the Student Services Office in the Faculty of Social Work.

## Overview

General Program Information

## Contact Information

**Location:** MacKimmie Tower 301

**Dean's Office:** 403.220.5945

**Dean's Office Email:** [fswdean@ucalgary.ca](mailto:fswdean@ucalgary.ca)

**Student Services Email:** [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

**Website:** [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca)

## Introduction

International Definition of Social Work

"Social work is a practice-based profession and an academic discipline that promotes social change and development, social cohesion, and the empowerment and liberation of people. Principles of social justice, human rights, collective responsibility and respect for diversities are central to social work. Underpinned by theories of social work, social sciences, humanities and Indigenous knowledge, social work engages people and structures to address life challenges and enhance wellbeing."

([ifsw.org/get-involved/global-definition-of-social-work](http://ifsw.org/get-involved/global-definition-of-social-work))

**Faculty of Social Work Vision**

Wellbeing, sustainability, and social justice.

**Faculty of Social Work Mission**

Be a local and global partner in transformative social work knowledge, education, research, and practice.

For more information, visit [A Place to Gather](#), the Faculty of Social Work 2022-2027 Strategic Plan.

## Objectives

In addition to aligning with faculty's strategic plan, the program is grounded in the Code of Ethics and Standards of Practice of the social work profession, and the national Accreditation Standards for schools of social work.

## Professional Conduct

The study of social work practice places students in a position of special trust with professional social workers and their clients. The Faculty recognizes that social work education occurs both inside and outside the classroom and has the responsibility to ensure that its graduates are competent and ethical. Students are expected to comply with all university policies and regulations in addition to professional standards for the Social Work profession as outlined by the Canadian Association for Social Workers, Code of Ethics (2005): [https://www.casw-acts.ca/files/attachements/casw\\_code\\_of\\_ethics.pdf](https://www.casw-acts.ca/files/attachements/casw_code_of_ethics.pdf) and the Alberta College of Social Work Standards of Practice (2019): <https://acsw.ab.ca/site/practice-resources>.

Students are expected to be both familiar and compliant with these standards.

## Opportunities

The BSW program provides students with the foundational knowledge and integrated learning, including supervised diverse practice settings. Students are prepared to work in fields of practice such as mental health, addictions, social policy, social welfare services for children and families, community development, corrections, and health. Upon graduation, students fulfill the academic requirements to begin the required registration process with the province or territory where they choose to practice professional social work.

## Social Work Students' Association

The Social Work Students' Association (SWSA) is actively involved in the governance of the Faculty, with representatives on Faculty Council and Faculty committees. SWSA is an active advocate of student interests and issues, and a sponsor of social events for educational and charitable causes. SWSA is active in the BSW program all students in the faculty are eligible for membership.

## Locations

### Calgary Campus

MacKimmie Tower, Room 301

Program number (undergraduate): 403.220.2124; 403.220.5430; 1.877.220.0667

Program number (graduate): 403.220.6208; 403.220.3489; 1.877.220.6945

Fax: 403.282.7269

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

### Edmonton Campus

3-250, 10230 Jasper Avenue

Edmonton, AB

T5J 4P6

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

### Lethbridge Campus

4401 University Drive

Lethbridge, AB

T1K 3M4

Program number: 403.329.2794; 1.866.329.2794

Fax: 403.329.2787

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

## Admissions

### Program Admissions Information

For Faculty of Social Work admission information see [3.1 Admissions](#).

## Program Details

### Simple Requisites

#### Faculty of Social Work Regulations

##### Type

##### Completion Requirement

#### Faculty of Social Work Regulations

For Faculty of Social Work degree requirements refer to:

##### Enroll in the following Requirement Sets:

- Bachelor of Social Work - Graduation Requirements
- Bachelor of Social Work - Graduation "With Distinction"

For other regulations related to the Bachelor of Social Work program see [3. Faculty of Social Work Regulations](#).

Additional Comments:

Program Requirements

Type

Completion Requirement

In addition to successful completion of Social Work 201, students are required to complete a total of 60 units consisting of:

Earn at least 60 credits from the following:

- 51 units of Social Work required courses, including: Social Work 310, 312, 314, 318, 322, 390, 392, 419, 427, 428, 429, 436, 437, 590, 592
- 9 units of Social Work option courses at 500 level

**Note:** A minimum of 27 units of 300- and 400-level Social Work courses must be completed prior to registering in Social Work 590.

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete an optional enhancement to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Bachelor of Social Work - Minor Field and Embedded Certificates

Additional Comments:

## Overview

### General Program Information

## *Admission to this program is suspended*

## Contact Information

Location: MacKimmie Tower 301

Dean's Office: 403.220.5945

Dean's Office Email: [fswdean@ucalgary.ca](mailto:fswdean@ucalgary.ca)

Student Services Email: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

Website: [socialwork.ucalgary.ca](http://socialwork.ucalgary.ca)

## Introduction

The Community-Based Learning Circles and the Virtual Learning Circles (online) BSW provide an undergraduate curriculum that is culturally and geographically relevant. Course content is innovative and aligned with traditional philosophies and knowledge systems. Community collaboration and flexible delivery methods are key features of these programs.

Students in the Community-Based Learning Circles must be available to attend course offerings in Alberta communities where the Community-Based Learning Circles are being offered.

The Virtual Learning Circles program delivers the curriculum through a blended learning approach, integrating online learning with some in-person classes in Calgary or Edmonton. Students must have reliable online access and be able to travel to Calgary

for an annual 5-day residency in both years. For more information on this program consult Student Services in Calgary or the Faculty's website: [socialwork.ucalgary.ca](https://socialwork.ucalgary.ca).

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### International Definition of Social Work

"Social work is a practice-based profession and an academic discipline that promotes social change and development, social cohesion, and the empowerment and liberation of people. Principles of social justice, human rights, collective responsibility and respect for diversities are central to social work. Underpinned by theories of social work, social sciences, humanities and Indigenous knowledge, social work engages people and structures to address life challenges and enhance wellbeing." ([ifsw.org/get-involved/global-definition-of-social-work](https://ifsw.org/get-involved/global-definition-of-social-work))

#### Faculty of Social Work Vision

Wellbeing, sustainability, and social justice.

#### Faculty of Social Work Mission

Be a local and global partner in transformative social work knowledge, education, research, and practice.

For more information, visit [A Place to Gather](#), the Faculty of Social Work 2022-2027 Strategic Plan.

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### Objectives

In addition to aligning with faculty's strategic plan, The program is grounded in the Code of Ethics and Standards of Practice of the social work profession, and the national accreditation standards for schools of social work.

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### Opportunities

The BSW program provides students with the professional knowledge, theory, and skills of social work including a wide range of experiential opportunities to integrate this learning in supervised practice settings. Upon graduation, students are prepared to practice as generalist social workers in a wide variety of social welfare fields in a continuously changing world. Areas of practice may include child welfare, family violence, community development, health, gerontology, mental health and addictions, social policy development, and working with individuals, families, groups, organizations, and communities.

#### Social Work Students' Association

The Social Work Students' Association (SWSA) is actively involved in the governance of the Faculty, with representatives on Faculty Council and Faculty committees. SWSA is an active advocate of student interests and issues, and a sponsor of social events for educational and charitable causes. SWSA is active at all three campuses and all students in the faculty are eligible for membership.

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### Professional Conduct

The study of social work practice places students in a position of special trust with professional social workers and their clients. The Faculty recognizes that social work education occurs both inside and outside the classroom and has the responsibility to ensure that its graduates are competent and ethical. Students are expected to comply with all university policies and regulations in addition to professional standards for the Social Work profession as outlined by the Canadian Association for Social Workers, Code of Ethics (2005): [casw-acts.ca/files/attachements/casw\\_code\\_of\\_ethics.pdf](https://casw-acts.ca/files/attachements/casw_code_of_ethics.pdf) and the Alberta College of Social Work Standards of Practice (2019): [acsw.ab.ca/site/practice-resources](https://acsw.ab.ca/site/practice-resources).

Students are expected to be both familiar and compliant with these standards.

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### Locations

#### Calgary Campus

MacKimmie Tower, Room 301

Program number (undergraduate): 403.220.2124; 403.220.5430; 1.877.220.0667

Program number (graduate): 403.220.6208; 403.220.3489; 1.877.220.6945

Fax: 403.282.7269

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

# UCalgary

## Edmonton Campus

3-250, 10230 Jasper Avenue

Edmonton, AB

T5J 4P6

Program number: 780.492.3888; 1.888.492.2083

Fax: 780.492.5774

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

## Lethbridge Campus

4401 University Drive

Lethbridge, AB

T1K 3M4

Program number: 403.329.2794; 1.866.329.2794

Fax: 403.329.2787

Email address: [fsw.studentservices@ucalgary.ca](mailto:fsw.studentservices@ucalgary.ca)

## Admissions

Program Admissions Information

### *Admission to this program is suspended*

For Faculty of Social Work admission information see [3.1 Admissions](#).

## Program Details

Simple Requisites

### Faculty of Social Work Regulations

#### Type

Completion Requirement

Faculty of Social Work Regulations

For Faculty of Social Work degree requirements refer to:

#### Enroll in the following Requirement Sets:

- Bachelor of Social Work - Graduation Requirements
- Bachelor of Social Work - Graduation "With Distinction"

For other regulations related to the Bachelor of Social Work program see [3. Faculty of Social Work Regulations](#).

#### Additional Comments:

### Program Requirement

#### Type

Completion Requirement

Students are required to complete a total of 60 units in the following configuration:

#### Earn at least 60 credits from the following:

- 54 units of Social Work required courses, including: Social Work 300, 301, 302, 303, 304, 305, 306, 307, 410, 411, 412, 413
- 6 units of Social Work elective courses at the 500 level

**Note:** All required 300-level Social Work courses must be completed prior to registering in Social Work 410 (Practicum I). With prior approval of the Faculty of Social Work, University Transfer students may take Social Work 410 (Practicum I) and 411 (Integrative Seminar I) in their final semester of required social work theme courses. Upon completion of Social Work 410 and 411, University Transfer students may take Social Work 412 (Practicum II) and 413 (Integrative Seminar II).

**Additional Comments:**

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Bachelor of Social Work - Minor Field and Embedded Certificates

**Additional Comments:**

## Faculty of Veterinary Medicine Department

Summary of Degree Programs

Faculty Information

Faculty Regulations

Program Details

Administration

Courses of Instruction by the Faculty of Veterinary Medicine

## Programs

### Overview

General Program Information

### Contact Information

#### Locations:

Foothills Campus

Teaching Research & Wellness Building

3280 Hospital Drive NW

Calgary, AB

T2N 4Z6

Spy Hill Campus

Clinical Skills Building

11877-85 Street NW

Calgary, AB

T3R 1J3

W.A. Ranches

274237 Range Road

34 Rocky View County, AB

**Student Information:**

# UCalgary

General Inquiries: 403.210.3961

DVM Admissions Inquiries: 403.220.8699

Graduate Studies Admission Inquiries: 403.210.6628

Clinical Training Programs Inquiries: 403.210.6116

Faculty Number: 403.210.3961

## Email addresses:

General Inquiries: [vetmed@ucalgary.ca](mailto:vetmed@ucalgary.ca)

Dean's Office: [vetdean@ucalgary.ca](mailto:vetdean@ucalgary.ca)

DVM Admissions Inquiries: [vet.admissions@ucalgary.ca](mailto:vet.admissions@ucalgary.ca)

Graduate Studies Admission Inquiries: [vmgrad@ucalgary.ca](mailto:vmgrad@ucalgary.ca)

Website: [vet.ucalgary.ca/](http://vet.ucalgary.ca/)

## Introduction

The University of Calgary Faculty of Veterinary Medicine (UCVM) offers an accredited program leading to a Doctor of Veterinary Medicine (DVM) degree and eligibility for licensure in North America. UCVM also offers graduate education and advanced clinical training programs. The DVM program is offered and administered by the Faculty of Veterinary Medicine. Graduate studies under the supervision of UCVM faculty members are administered through the Faculty of Graduate Studies.

Our mission is to meet the veterinary, animal and public health needs of Alberta and beyond through excellence in

- delivery of a comprehensive undergraduate veterinary medical education, emphasizing production animal health, ecosystem and public health, equine health, and investigative medicine;
- clinical, diagnostic and professional teaching and service, in collaboration with our partners in the Distributed Veterinary Learning Community;
- the creation and distribution of new knowledge through research, graduate veterinary education, and continuing education in animal health, disease and welfare, and its interaction with human and environmental health.

Our education, research and service activities will contribute to the promotion and protection of animal and human health and welfare in Alberta, Canada and internationally.

## Pattern

The DVM program is accredited by the AVMA-CVMA (American and Canadian Veterinary Medical Associations) Council on Education. The core program provides a comprehensive general veterinary education covering all the major domestic species, including food producing animals, equine and companion animals, and the major exotic animal species. It also includes public and ecosystem health, wildlife and conservation medicine, professional and communication skills, research skills and comparative medicine. The core program prepares students for general veterinary practice, with an emphasis on skills for successful practice in rural communities and provides a foundation to pursue all careers in veterinary medicine. The program provides enhanced opportunities in four Areas of Emphasis:

- **Production animal health:** population and individual animal health of all food and other production animal species; educating veterinarians to meet the needs of the livestock industry and rural Alberta.
- **Ecosystem and public health:** animal and public health at the interface of domestic animals, wildlife, humans and the environment; educating veterinarians to meet the needs of society through public and private practice in areas related to public health, food safety, environmental and agricultural interfaces, wildlife/conservation/zoo medicine and health.
- **Equine health:** population and individual care of horses; educating veterinarians to meet the needs of the horse industry, horse owners, and rural Alberta.
- **Investigative Medicine:** comparative medicine and biomedical research; encouraging students to pursue careers advancing animal and human health through research (basic, clinical, applied, or population health).

The DVM program is delivered over four calendar years and includes nine semesters of instruction. The first three years are two semesters in length and align with the University academic calendar. They include on-campus and off-campus learning experiences. A number of extracurricular learning activities are also available. The fourth (practicum) year is the equivalent of three semesters - 40 weeks of practicum rotation experiences, plus additional days for assessment, delivered over a full calendar year. Through our Distributed Veterinary Learning Community (DVLC) students will gain valuable hands-on clinical, diagnostic

and professional experience in the fourth year of the program. The DVLC is comprised of private and public practices, non-government organizations, federal and provincial agencies and other animal industry partners who work with UCVF faculty to provide an exciting collaborative environment and outstanding learning opportunities for our DVM students.

The DVM curriculum provides a balance of opportunities for students to learn comparative medicine and discipline-based knowledge, to acquire and practice clinical and professional skills, and to develop diagnostic reasoning ability during the first three years. Early exposure to clinical material at the individual animal and population levels is provided in the Clinical Presentations courses, which integrate basic, preclinical, clinical and population health material.

Clinical skills courses offered in each semester of the first three years enable students to have early and frequent contact with animals, where they learn and practice clinical skills necessary for the practicum year. Professional Skills courses in each of the first three years cover clinical communications, ethics, jurisprudence, business operations, informatics, and research.

Delivery of final year practicum rotations through the DVLC provides a wealth of clinical and professional experiences, preparing students for the broad range of career opportunities available within the veterinary profession. The DVLC gives students access to a large case load that includes a significant proportion of primary care cases, in addition to more complex cases. Scheduling of the final year over 12 months provides opportunity to capture seasonality in clinical experiences.

In the fourth year, practicum rotations are organized into three different courses. All students must take a course in Laboratory Diagnostics and a course in General Veterinary Practice, involving clinical rotations covering the major domestic species and rural community practice and a course of Clinical Enrichment rotation electives which cover all major species and areas of veterinary medicine, including small animal, food animal, wildlife and zoo medicine, public practice, international, ecosystem health, and many other electives.

## Opportunities

Graduates of the DVM program are eligible for licensure to practice in Canada, but the DVM degree does not itself confer the right to practice. The Alberta Veterinary Medical Association (ABVMA) is the professional organization governing the practice of veterinary medicine in Alberta under the authority of the Veterinary Profession Act. Students interested in exploring matters relative to license to practice in Alberta should refer to the ABVMA website ([abvma.ca](http://abvma.ca)). For information relative to license to practice in the other provinces in Canada, students should contact the appropriate provincial veterinary association.

## Student Services

The Office of Student Experience in the Faculty of Veterinary Medicine serves as the first point of contact for students requiring assistance with any aspect of student life.

## Resources

The Faculty of Veterinary Medicine is located:

**The Foothills Campus**, located approximately one kilometre south of the main campus of the University of Calgary and functions as home-base for the Faculty, containing faculty and administrative offices, educational space, the Health Sciences Library, a student bookstore, food services, and many of the core research facilities. The Dean's Office is located on the second floor of the Teaching, Research, and Wellness (TRW) building.

**W.A. Ranches** is a 19,000 acre commercial cow/calf operation located north of Cochrane, 30 minutes from the Spy Hill Campus. The purpose of the ranch is for teaching and learning, research and community engagement

**The Spy Hill Campus**, including the Clinical Skills Building, the Veterinary Sciences Research Station and the Wildlife Research Station are located approximately 17 kilometres north-west of the Foothills campus. The Clinical Skills Building (CSB) is the site of clinical and professional skills education during the first three years of the DVM program. The CSB has educational facilities for anatomy, animal handling, medical exercises, surgical exercises, diagnostic imaging, diagnostic support, and pathology instruction. There are outside holding pens for cattle and horses, and kennel facilities for dogs and cats. The CSB also has classrooms, small group teaching rooms, laboratory facilities, and all the necessary support areas. Primary student support services are provided at the Foothills Campus and main campus; however, additional administrative and student support space (e.g. kitchen, lounge area, learning commons) are available at the CSB to support students and activities while they are at that location. The Wildlife Research Station and the Veterinary Sciences Research Station, also located at the Spy Hill campus, support the educational and research activities of the Faculty.

The first three years of the DVM program are delivered predominantly at the Foothills and Spy Hill Campuses, with students spending time at each site. Students are responsible for their own travel between sites, with classes scheduled to allow full day activities at each site. During the final year of the DVM program, students complete their practicum rotations on and off campus.

Most practicum rotations occur in private veterinary practices and other institutional settings that together constitute the Faculty of Veterinary Medicine's Distributed Veterinary Learning Community. The off-campus sites are distributed across Alberta and beyond, including international sites. As part of the DVM program, students must participate in learning opportunities at partner sites and may be required to live in close proximity to the site to facilitate on-call responsibilities. While travel support is provided, students are responsible for their travel arrangements to partner locations and for their own accommodation arrangements.

## Admissions

### Program Admissions Information

For Faculty of Veterinary Medicine admission information see 3.1 Admissions.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Veterinary Medicine Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Veterinary Medicine - Graduation

For other regulations related to the Faculty of Veterinary Medicine see [3. Faculty of Veterinary Medicine Regulations](#).

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

##### Introduction

The Faculty of Veterinary Medicine of the University of Calgary offers a four-year professional degree leading to a Doctor of Veterinary Medicine (DVM). The first three years of the program follow the regular academic year, while the fourth year is scheduled for 40 weeks, with two additional weeks for assessment, across the entire calendar year (May-April).

The DVM program is accredited by the AVMA-CVMA Council on Education and is based on an integrated core-elective model. The core program provides a comprehensive general veterinary education covering all the major domestic species, including food producing animals, equine and companion animals, and the major exotic animal species. The core program also includes public and ecosystem health, wildlife and conservation medicine, professional and communication skills, research skills and comparative medicine. The core program prepares students for general veterinary practice, with an emphasis on skills for successful practice in rural communities and provides a foundation to pursue all careers in veterinary medicine. The elective programs cover all areas of general veterinary practice and provide enhanced opportunities in four Areas of Emphasis: production animal health, ecosystem and public health, investigative medicine, and equine health.

##### Course Requirements

Course sequencing may vary, however total units per year of study must still be completed in order to progress to the next year of study. Refer to **Faculty of Veterinary Medicine** website for registration details.

**Earn at least 130 credits from the following:**

- First Year 30 units from the following: Veterinary Medicine 300, 305, 307, 320, 321, 322, 323, 324, 342, 343,

344, 345, 360

- Second Year 30 units from the following: Veterinary Medicine 400, 405, 407, 411, 420, 422, 423, 424, 425, 442, 443, 445, 461, 462, 464, 465
- Third Year 30 units from the following: Veterinary Medicine 440, 501, 505, 506, 508, 521, 522, 523, 525, 530, 531, 540, 541, 542, 550, 551
- Fourth Year 40 units from the following: Veterinary Medicine 571, 581, 591

Additional Comments:

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Stem Cell and Regenerative Medicine at the Master's and Doctoral levels for students registered in the following faculties and graduate programs:

- Biomedical Engineering
- Veterinary Medical Sciences

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

### Biomedical Engineering BMEN

Email address: <mailto:bmegrad@ucalgary.ca>

Web page URL: <https://research.ucalgary.ca/bme/graduate>

### Veterinary Medical Sciences VMS

Email address: <mailto:vmgrad@ucalgary.ca>

Web page URL: <http://vet.ucalgary.ca/graduate>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization. See:

- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Veter](#)
- [PHD Veteri](#)

Applicants must meet the [admission requirements](#) of the Faculty of Graduate Studies and the home program that offers the Stem Cell and Regenerative Medicine specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

Program/Course Requirements

Type

Completion Requirement

Additional Comments:

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Stem Cell and Regenerative Medicine specialization must meet the following course requirements:

a) **VETM702 Adv Topics Stem Cell Biol**

b) **MDSC710 Business & Careers Biotech**

- All SCRM students must attend and participate in the Reproduction and Regenerative Medicine Research Group monthly seminar series. Attendance is a mandatory program requirement and will be recorded. This is an ongoing, mandatory educational activity for the duration of the graduate program and is routinely attended by graduate supervisors.
- All SCRM students must attend and participate in the weekly Reproduction and Regenerative Medicine Research group journal club. Attendance is a mandatory program requirement and will be recorded. This is an ongoing, mandatory educational activity for the duration of the graduate program, which will be attended by graduate supervisors on a rotary basis.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

See home program for information on time limits, supervisory assignments, required examinations, research proposal requirements and financial assistance.

## Overview

### General Program Information

#### Specializations\*

- Wildlife Health and Ecology
- **Stem Cell&**

\*Students may apply to one of the specializations provided that their main research plan falls within the scope of the specialization. Application should occur once admitted to the VMS graduate program.

In addition, the University of Calgary offers the joint **Leaders in Veterinary Medicine Program** leading to the combined DVM/MSc or DVM/PhD degrees. Students applying to the DVM/MSc or DVM/PhD program must apply individually to each program and complete a supplementary application for the Leaders in Veterinary Medicine Program. Further information regarding the Leaders in Veterinary Medicine Program is provided under the **Combined Degrees** section in this Calendar.

Master's thesis students are normally admitted as full-time students. The Faculty of Graduate Studies may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Location: Teaching Research and Wellness (TRW) Building, Room 2D09

Program number: 403.210.8764

Fax: 403.210.6628

Email address: <mailto:vmgrad@ucalgary.ca>

Web page URL: <http://vet.ucalgary.ca/graduate>

## Admissions

### Program Admissions Information

For the MSc application deadlines, see <http://www.ucalgary.ca/future-students/graduate/explore-programs/veterinary-medicine-master-science-thesis-based>.

In addition to the Faculty of Graduate Studies [admission requirements](#), the Veterinary Medical Sciences program requires:

- a) A minimum of a baccalaureate degree (or its equivalent, or a BVSc, DVM or MD degree) with course work appropriate for VMS graduate training from a recognized institution, with a minimum admission grade point average of 3.00 on a four-point scale or equivalent in the last two years (60 units) of undergraduate study.
- b) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS score of 7.0, or a CAEL overall score of 70. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- c) The VMS Funding Offer letter from a supervisor outlining the commitment to the training of the student, as well as the commitment to fund full-time students (in accordance with the [VMS Funding Policy](#)).
- d) Two reference letters.
- e) Curriculum Vitae.
- f) Endorsement of the Graduate Program Director, which is granted based on the evaluation of the admissions file by the UCV M Graduate Education Committee.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), PhD students must complete:

a) [VETM601 Prof Skills Hlth Science Res](#);

b) [MDCH605 \(VETM605\)Intro Biostat Methods](#) or [MDCH610 Biostat I: Essntl's Biostat](#)\*;

\*A suitable entry-level biostatistics course may be taken as an alternative to Veterinary Medicine 605 or 610, with permission from the Graduate Program Director.

c) MSc students must take at least 3 additional units that are appropriate to their field of study and have been approved by their Supervisory Committee; and

d) MSc students are required to give one public seminar to the Faculty of Veterinary Medicine community prior to scheduling the thesis examination.

All individuals working with humans or animals must have appropriate certification. In accordance with Canadian Council on Animal Care guidelines and the University of Calgary VPR office, all individuals who work with animals must register with the [Institutional Animal User Training Program](#) to complete the relevant U of C IAUTP online training modules and to determine what additional training is required as determined by their research program and any previous animal use training they may have. No animal work will be permitted until all training has been completed. The IAUTP online training modules can be accessed prior to arrival to the U of C once the student's UCID is assigned, however, the associated written quiz and live training sessions must be completed after arrival.

In accordance with Tri-Council guidelines, all students performing research involving humans must have the [CORE tutorial certificate](#) prior to applying for ethics certification and must receive ethics certification prior to working with human subjects.

#### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

Advanced Credit may be given for course work completed prior to entry into the program. The applicant must make requests for advanced credit as part of the application for admission.

## Flexible Grade Option (CG Grade)

The Veterinary Medical Sciences Graduate Program will not permit the Flexible Grade Option (CG Grade) for any graduate course offered by the Faculty of Veterinary Medicine. Students admitted to the Veterinary Medical Sciences Graduate program will not be allowed to request the CG Grade for any course that is applicable to their degree; or apply any course awarded a CG grade towards their graduation requirements.

Students may not choose the CG grade for courses taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

The student's Supervisory Committee may recommend credit for undergraduate courses provided they are relevant to the area of study. Final approval is required by the Graduate Program Director.

## Time Limit

In accordance with FGS Academic Regulations, students are expected to complete an MSc in two years, with a maximum time of four years.

### Supervisory Assignments, Research Proposal and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

Students will normally have identified a permanent supervisor at the time of admission.

In consultation with the student's supervisor(s), a Supervisory Committee will be selected that includes a minimum of two additional faculty members for MSc degrees. The appointment of a supervisory committee shall be completed within three months after starting the program. The Graduate Program Director will approve the composition of the committee.

Co-supervision may be required. See G.J. Supervision for appointment of Co-Supervisor.

## Research Proposal Requirements

The VMS Graduate Program requires all Master's students to present a research proposal to their supervisory committee. A copy of the final version of the proposal will be kept in the student's file.

The research proposal must be accepted by one year after initial registration in the program. For research proposal requirements, see <https://vet.ucalgary.ca/current-students/graduate-students/policies-forms>.

## Thesis Examination

The thesis examination for MSc degrees will consist of a public seminar immediately followed by an open oral examination. In the thesis examination, the supervisor is a full voting member of the examination committee.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner must be external to the home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Full-time graduate students in the VMS Graduate Program will be offered a stipend as per the VMS graduate student funding policy. Funding support for the students may come from a variety of sources, including grants, awards and scholarships.

Further information on funding opportunities can be found at <https://vet.ucalgary.ca/future-students/graduate-students/funding>.

Part-time students are not guaranteed VMS program-set minimum funding.

## **Overview**

### **General Program Information**

#### **Specializations\***

- Wildlife Health and Ecology
- Stem Cell&

\*Students may apply to one of the specializations provided that their main research plan falls within the scope of the specialization. Application should occur once admitted to the VMS graduate program.

In addition, the University of Calgary offers the joint Leaders in Veterinary Medicine Program leading to the combined DVM/MSc or DVM/PhD degrees. Students applying to the DVM/MSc or DVM/PhD program must apply individually to each program and complete a supplementary application for the Leaders in Veterinary Medicine Program. Further information regarding the Leaders in Veterinary Medicine Program is provided under the Combined Degrees section in this Calendar.

Doctoral graduate students are normally admitted as full-time students. The Faculty of Graduate Studies may however, approve requests for registration as part-time or transfer from a full-time to a part-time status.

Location: Teaching Research and Wellness (TRW) Building, Room 2D09

Program number: 403.210.8764

Fax: 403.210.6628

Email address: <mailto:vmgrad@ucalgary.ca>

Web page URL: <http://vet.ucalgary.ca/graduate>

## **Admissions**

### **Program Admissions Information**

For the PhD application deadlines, see <http://www.ucalgary.ca/future-students/graduate/explore-programs/veterinary-medicine-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies admission requirements, the Veterinary Medical Sciences program requires:

## UCalgary

- a) A minimum of a baccalaureate degree (or its equivalent, or a BVSc, DVM or MD degree) with course work appropriate for VMS graduate training from a recognized institution, with a minimum admission grade point average of 3.00 on a four-point scale or equivalent in the last two years (60 units) of undergraduate study.
- b) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS score of 7.0, or a CAEL overall score of 70. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- c) The VMS Funding Offer letter from a supervisor outlining the commitment to the training of the student, as well as the commitment to fund full-time students (in accordance with the [VMS Funding Policy](#)).
- d) Two reference letters.
- e) Curriculum Vitae.
- f) Endorsement of the Graduate Program Director, which is granted based on the evaluation of the admissions file by the UCMV Graduate Education Committee.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#), PhD students must complete:

a) [VETM601 Prof Skills Hlth Science Res](#);

b) [MDCH605 \(VETM605\)Intro Biostat Methods](#) or [MDCH610 Biostat I: Esntl's Biostat\\*](#);

\*A suitable entry-level biostatistics course may be taken as an alternative to Veterinary Medicine 605 or 610, with permission from the Graduate Program Director.

c) PhD students must take at least 6 additional units that are appropriate to their field of study and have been approved by their Supervisory Committee; and

d) PhD students are required to give one public seminar the Faculty of Veterinary Medicine community prior to completing the admission to candidacy process, and are required to give a second public seminar prior to scheduling the thesis examination.

All individuals working with humans or animals must have appropriate certification. In accordance with Canadian Council on Animal Care guidelines and the University of Calgary VPR office, all individuals who work with animals must register with the [Institutional Animal User Training Program](#) to complete the relevant U of C IAUTP online training modules and to determine what additional training is required as determined by their research program and any previous animal use training they may have. No animal work will be permitted until all training has been completed. The IAUTP online training modules can be accessed prior to arrival to the U of C once the student's UCID is assigned, however, the associated written quiz and live training sessions must be completed after arrival.

In accordance with Tri-Council guidelines, all students performing research involving humans must have the [CORE tutorial certificate](#) prior to applying for ethics certification and must receive ethics certification prior to working with human subjects.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

**Advanced Credit** may be given for course work completed prior to entry into the program. The applicant must make requests for advanced credit as part of the application for admission.

### Flexible Grade Option (CG Grade)

The Veterinary Medical Sciences Graduate Program will not permit the **Flexible Grade Option (CG Grade)** for any graduate course offered by the Faculty of Veterinary Medicine. Students admitted to the Veterinary Medical Sciences Graduate program will not be allowed to request the CG Grade for any course that is applicable to their degree; or apply any course awarded a CG grade towards their graduation requirements.

Students may not choose the CG grade for courses taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

The student's Supervisory Committee may recommend credit for undergraduate courses provided they are relevant to the area of study. Final approval is required by the Graduate Program Director.

### Time Limit

In accordance with FGS Academic Regulations, students in PhD programs are expected to complete their degree in four years, with a maximum time of six years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students will normally have identified a permanent supervisor at the time of admission.

In consultation with the student's supervisor(s), a Supervisory Committee will be selected that includes a minimum of three additional faculty members for PhD degrees. In PhD committees, one member will be named from outside the VMS graduate program. The appointment of a supervisory committee shall be completed within three months after starting the program. The Graduate Program Director will approve the composition of the committee.

Co-supervision may be required. See [G.J. Supervision](#) for appointment of Co-Supervisor.

### Candidacy

Doctoral students must successfully complete all coursework, a written examination of a research proposal, and an oral field-of-study examination. Students with a first registration after August 2015 are governed by the candidacy policy described at: <https://vet.ucalgary.ca/current-students/graduate-students/policies-forms>.

### Thesis Examination

The thesis examination for PhD degrees will consist of a public seminar immediately followed by an open oral examination. In the thesis examination, the supervisor is a full voting member of the examination committee.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Full-time graduate students in the VMS Graduate Program will be offered a stipend as per the VMS graduate student funding policy. Funding support for the students may come from a variety of sources, including grants, awards and scholarships.

Further information on funding opportunities can be found at <https://vet.ucalgary.ca/future-students/graduate-students/awards-funding/faculty-veterinary-medicine-awards>.

Part-time students are not guaranteed VMS program-set minimum funding.

## Geography; Department of Department

The Department of Geography is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Geography](#).

## Programs

### Overview

#### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

#### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

## Simple Requisites

### Faculty of Science Requirements

#### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

### Department Regulations

#### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

### Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

#### Type

Completion Requirement

Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Geography while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

#### Additional Comments:

### Program Requirements

#### Type

Completion Requirement

Required Courses - Major with a Concentration in Geography and Arts

**Earn at least 96 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 12 units - Geography 308, 310, 408, and 412
- 6 units - Geography 500 or 502 or 503 or 504 or 506 or 508 or 510

- 9 units - Geography 380; and 482 or 484; and 567 or 584 or 586
- 6 units - Geography 324; and 426 or 530 or 532 or 538
- 9 units - Geography 352; 483; and 454 or 458
- 3 units - Statistics 327 or Biology 315
- 6 units - Economics 201 and 377
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Anthropology 203 or Sociology 201
- 3 units - Anthropology 313 or 355 or 395 or Environmental Science 201 or Indigenous Studies 201 or Sociology 307

Required Options - Major with a Concentration in Geography and Arts

Earn at least 24 credits from the following:

- 6 units - Options from the Faculty of Arts
- 6 units - Non-Major Field Requirement: Options outside of the Field of Environmental Science (Geography and the Arts Concentration)
- 12 units - Options

Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

Additional Comments:

#### Recommended Program Sequence for the Geography and Arts Concentration

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geography and Arts Concentration.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

Additional Comments:

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

##### Enroll in the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

Additional Comments:

#### Department Regulations

## Type

Completion Requirement

## Additional Comments:

### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

## Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

## Type

Completion Requirement

### Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Biological Sciences while fulfilling the Program Requirements.

### Earn at least 54 credits from the following:

- Courses Constituting the Field of Environmental Science with a Concentration in Geography and Arts

## Additional Comments:

## Program Requirements

## Type

Completion Requirement

### Required Courses - Major Program with a Concentration in Geography and Arts

### Earn at least 96 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 12 units - Geography 308, 310, 408, and 412
- 6 units - Geography 500 or 502 or 503 or 504 or 506 or 508 or 510
- 9 units - Geography 380; and 482 or 484; and 567 or 584 or 586
- 6 units - Geography 324; and 426 or 530 or 532 or 538
- 9 units - Geography 352; 483; and 454 or 458
- 3 units - Statistics 327 or Biology 315
- 6 units - Economics 201 and 377
- 6 units - Mathematics 249 or 265 or 275; and Mathematics 211 or 213 or 267 or 277
- 15 units - Environmental Science 401, 501, 502, 503
- 3 units - Anthropology 203 or Sociology 201
- 3 units - Anthropology 313 or 355 or 395 or Environmental Science 201 or Indigenous Studies 201 or Sociology 307

### Required Options - Major Program with a Concentration in Geography and Arts

### Earn at least 24 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Geography
- 6 units - Non-Major Field Requirement: Options outside of the Field of Environmental Science (Geography and the Arts Concentration)

- 12 units - Options

## Additional Comments:

### Program Sequence

#### Type

Completion Requirement

#### Additional Comments:

#### Recommended Program Sequence for the Geography and Arts Concentration

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see Recommended Program Sequence for Honours with the Geography and Arts Concentration.

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

#### Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

Additional Comments:

### Program Requirements

Type

Completion Requirement

#### Program Requirements

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Geography with at least 18 units at the 300 level or above.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Geography

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising)

## Introduction

The Department offers programs in Geography and Urban Studies. The Department of Geography also participates in the Environmental Science program, which is housed in the Faculty of Science.

Geography is the study of people, places and patterns on the Earth's surface. Students learn how to analyze the meaning of patterns formed on the Earth's surface by natural processes and human activity. Geographers apply these concepts and information to manage and use Earth's resources to advance human civilization in a sustainable manner. Geography has many facets, and undergraduates learn about all of them: human geography, physical geography, and techniques and methods. They also learn the basics of how to conduct research to answer the many unsolved questions in Geography. Because Geography is so broad in scope, geographers work in a wide variety of jobs. They are, above all, specialists in putting together information from a wide variety of disciplines to arrive at solutions to problems involving location and spatial relationships - such as planning (urban, transportation or tourism, for example), environmental impact, transportation or resource management.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Geography) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

Simple Requisites

### Faculty of Arts Regulations

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

## Courses Constituting the Field of Geography

### Type

Completion Requirement

#### Courses Constituting the Field of Geography

Students must successfully complete a minimum of units 48 units to a maximum of 60 units in Courses Constituting the Field of Geography while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Geography

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 24 credits from the following:**

- Foundation: 3 units from Geography 204, 254, 280, 303, 324, 326, 328, 330
- Foundation: 12 units Geography 352, 354, 380, 391
- Foundation: 3 units from Geography 308, 310
- Depth: 6 units Geography 483, 485

#### Major-Field - Required Options

Complete a total of 24 units from Courses Constituting the Field of Geography:

- Depth: 6 units at the 400 level from List A
- Advanced:
  - 9 units at the 500 level from List A or B
  - 3 units at the 500 level from List C
- Upper-level options: 6 units at the 400 level or above from List A or B or C

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Geography

### Additional Comments:

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Enroll in the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department offers programs in Geography and Urban Studies. The Department of Geography also participates in the Environmental Science program, which is housed in the Faculty of Science.

Geography is the study of people, places and patterns on the Earth's surface. Students learn how to analyze the meaning of patterns formed on the Earth's surface by natural processes and human activity. Geographers apply these concepts and information to manage and use Earth's resources to advance human civilization in a sustainable manner. Geography has many facets, and undergraduates learn about all of them: human geography, physical geography, and techniques and methods. They also learn the basics of how to conduct research to answer the many unsolved questions in Geography. Because Geography is so broad in scope, geographers work in a wide variety of jobs. They are, above all, specialists in putting together information from a wide variety of disciplines to arrive at solutions to problems involving location and spatial relationships - such as planning (urban, transportation or tourism, for example), environmental impact, transportation or resource management.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Geography) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours

The Faculty of Arts procedures for admission to the BA or BSc Honours (Geography) and the BSc Honours (Earth Science) are established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

Simple Requisites

## Faculty of Arts Requirements

### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

### Additional Comments:

## Courses Constituting the Field of Geography

### Type

Completion Requirement

#### Courses Constituting the Field of Geography

Students must successfully complete a minimum of units 60 units to a maximum of 72 units in Courses Constituting the Field of Geography while fulfilling the Program Requirements.

#### Earn at least 60 credits from the following:

- Courses Constituting the Field of Geography

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 30 credits from the following:

- Foundation: 3 units from Geography 204, 254, 280, 303, 324, 326, 328, 330
- Foundation: 12 units Geography 352, 354, 380, 391
- Foundation: 3 units from Geography 308, 310
- Depth: 6 units Geography 483, 485
- Honours Thesis: 6 units Geography 595, 598

#### Major-Field - Required Options

Complete a total of 30 units from Courses Constituting the Field of Geography:

- Depth: 6 units at the 400 level from List A
- Advanced:
  - 9 units at the 500 level from List A or B
  - 6 units at the 500 level from List C
- Upper-level options: 9 units at the 400 level or above from List A or B or C

#### Earn at least 30 credits from the following:

- Courses Constituting the Field of Geography

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

#### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department offers programs in Geography and Urban Studies. The Department of Geography also participates in the Environmental Science program, which is housed in the Faculty of Science.

Geography is the study of people, places and patterns on the Earth's surface. Students learn how to analyze the meaning of patterns formed on the Earth's surface by natural processes and human activity. Geographers apply these concepts and information to manage and use Earth's resources to advance human civilization in a sustainable manner. Geography has many facets, and undergraduates learn about all of them: human geography, physical geography, and techniques and methods. They also learn the basics of how to conduct research to answer the many unsolved questions in Geography. Because Geography is so broad in scope, geographers work in a wide variety of jobs. They are, above all, specialists in putting together information from a wide variety of disciplines to arrive at solutions to problems involving location and spatial relationships - such as planning (urban, transportation or tourism, for example), environmental impact, transportation or resource management.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BSc (Geography) Program must meet the criteria listed in [A.5 Undergraduate Degree Admission Requirements](#) section of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Geography

##### Type

Completion Requirement

#### Courses Constituting the Field of Geography

Students must successfully complete a minimum of units 48 units to a maximum of 60 units in Courses Constituting the Field of Geography while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Geography

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 30 credits from the following:**

- Foundation: 3 units from Geography 204, 254, 280, 303, 324, 326, 328, 330
- Foundation: 12 units Geography 308, 310, 380, 391
- Foundation: 3 units from Geography 352, 354
- Depth: 6 units Geography 483, 485

- Depth: 3 units Geography 408
- Depth: 3 units from Geography 410, 412

## Major-Field - Required Options

Complete a total of 18 units from Courses Constituting the Field of Geography:

- Advanced:

9 units at the 500 level from List D

3 units at the 500 level from List C

- Upper-level options: 6 units at the 400 level or above from List B or C or D

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of Geography

## Other Requirements

**Earn at least 6 credits from the following:**

- Science Requirement: 6 units from Biology 241, 243, 307; Chemistry 201 or 211, 203 or 213, 301; Computer Science 217, 219, 231, 233; Data Science 201, 211; Mathematics 211 or 213; Mathematics 249 or 265 or 275; Mathematics 267; Physics 211, 221, 223, 271; any senior courses offered by the Faculty of Science and having one of these as a prerequisite

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates

## Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department offers programs in Geography and Urban Studies. The Department of Geography also participates in the Environmental Science program, which is housed in the Faculty of Science.

Geography is the study of people, places and patterns on the Earth's surface. Students learn how to analyze the meaning of patterns formed on the Earth's surface by natural processes and human activity. Geographers apply these concepts and information to manage and use Earth's resources to advance human civilization in a sustainable manner. Geography has many facets, and undergraduates learn about all of them: human geography, physical geography, and techniques and methods. They also learn the basics of how to conduct research to answer the many unsolved questions in Geography. Because Geography is so broad in scope, geographers work in a wide variety of jobs. They are, above all, specialists in putting together information from a wide variety of disciplines to arrive at solutions to problems involving location and spatial relationships - such as planning (urban, transportation or tourism, for example), environmental impact, transportation or resource management.

## Admissions

Program Admissions Information

### Admission to Honours

Prospective students wishing to enter the BSc (Geography) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

### Courses Constituting the Field of Geography

#### Type

Completion Requirement

#### Courses Constituting the Field of Geography

Students must successfully complete a minimum of units 60 units to a maximum of 72 units in Courses Constituting the Field of Geography while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Geography

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

**Earn at least 36 credits from the following:**

- Foundation: 3 units from Geography 204, 254, 280, 303, 324, 326, 328, 330
- Foundation: 12 units Geography 308, 310, 380, 391
- Foundation: 3 units from Geography 352, 354
- Depth: 6 units Geography 483, 485
- Depth: 3 units Geography 408
- Depth: 3 units from Geography 410, 412
- Honours Thesis: 6 units Geography 595, 598

#### Major-Field - Required Options

Complete a total of 24 units from Courses Constituting the Field of Geography:

- Advanced: 9 units at the 500 level from List D
- Advanced: 6 units at the 500 level from List C
- Upper-level options: 9 units at the 400 level or above from List B or C or D

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Geography

#### Other Requirements

Science Requirement: a total of 12 units from the following:

- 9 units from Biology 241, 243, 307; Chemistry 201 or 211, 203 or 213, 301; Physics 211, 221, 223, 271;
- 3 units from Computer Science 217, 219, 231, 233; Data Science 201, 211; Mathematics 211, 213, 249, 265, 267, 275.

**Earn at least 12 credits from the following:**

- Science Requirement: 6 units from Biology 241, 243, 307; Chemistry 201 or 211, 203 or 213, 301; Computer Science 217, 219, 231, 233; Data Science 201, 211; Mathematics 211 or 213; Mathematics 249 or 265 or 275; Mathematics 267; Physics 211, 221, 223, 271; any senior courses offered by the Faculty of Science and having one of these as a prerequisite

Any senior courses offered by the Faculty of Science and having one of these as a prerequisite may be substituted for a course in this list.

#### Additional Comments:

#### Degree Options

##### Type

Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

## Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-master-arts-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies **requirements** and Faculty of Arts requirements, the Department requires:

a) Twelve units in a two-year period, including History and Philosophy of Physical or Human Geography, and at least one graduate-level methods course in Geography.

b) Four semesters of **GEOG601 Grad Research Seminar** (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.

c) An approved thesis proposal completed within the first year of the program.

For detailed information on courses and program requirements please refer to: [geog.ucalgary.ca](http://geog.ucalgary.ca).

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The department of Geography will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

## Time Limit

Expected completion time is two years. Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Each thesis-based graduate student has a supervisor appointed upon entry to the program.

## Research Proposal Requirements

Thesis-based Master's students normally complete a written thesis proposal, approved by the supervisor and two additional examiners, within twelve months of registration in the program.

## Thesis Examination

Thesis examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ualgary.ca/awards](http://grad.ualgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

The Master of Geographic Information Systems (MGIS), is a course-based program with a research component. The MGIS has a scheduled break in July and August. The program may be completed on a full-or part-time basis. Students can apply for direct entry admission to the MGIS degree or apply to the MGIS via the ladder pathway after completion of the [GCERT Geos](#).

### Laddered Pathway from the Graduate Certificate in Geospatial Information Technology to the Master of Geographic Information Systems

Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Master of Geographic Information Systems within five years of beginning the certificate.

Email address: <mailto:artsgradsc@ualgary.ca>

Web page URL: [geog.ualgary.ca](http://geog.ualgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ualgary.ca/future-students/graduate/explore-programs/geography-master-geographic-information-systems-course-based](http://ualgary.ca/future-students/graduate/explore-programs/geography-master-geographic-information-systems-course-based).

- a) A statement of interest outlining the applicant's goals, motivation for applying to the program, and research area of interest.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

For the academic background requirements for the MGIS program or the Graduate Certificate in Geospatial Information Technology, the Department will accept a four-year BA or BSc degree in Geography or in any related field that makes use of spatial data. Examples include, but are not limited to: Anthropology, Archaeology, Biological Sciences, Computer Science, Ecology, Environmental Science, Geology/Geophysics, Geomatics Engineering, History, Management, Mathematics, Political Science, Psychology, Tourism, Transportation Studies or Engineering, and Urban Studies.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

The MGIS requires 30 units of courses\*. At least 24 units of these must be at the 600 level or higher; the remaining 6 units may be at the 500 level. These will include:

- a) Three core courses (9 units) in Geographic Information Sciences in the areas of Remote Sensing, Spatial Analysis and Geographic Information Systems:

##### Complete ALL of the following Courses:

- GEOG633 - Research & Applications in Remote Sensing  
**AND** GEOG639 - Adv Spatial Analysis & Modeling  
**AND** GEOG647 - Adv Res & Appl In Geog Info Syst

- b) Two research-based courses (6 units) related to the area of Geographic Information Science:

##### Complete ALL of the following Courses:

- GEOG681 - Geographic Information Science Project: Theoretical Issues  
**AND** GEOG683 - Geographic Information Science Project: Application

#### Additional Comments:

- c) Five additional courses (15 units) approved by the Graduate Program Director.

\* Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Master of Geographic Information Systems within five years of beginning the certificate.

Participation in the annual graduate student Department conference is recommended.

For course-based students, departures from regular departmental program/course requirements may be recommended on an individual basis with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

MGIS students are allowed a maximum of 6 units credit at the 500 level.

### Time Limit

Minimum completion time is 16 months and maximum completion time is six years.

#### Required Examination

**Type**

Completion Requirement

**Additional Comments:**

### Comprehensive Examination

MGIS comprehensive examination will be held as part of **GEOG683 GeogInfoScieProj:Application** and be based on project and course work. MGIS students will be examined on their comprehensive understanding of course material and their integrated professional knowledge/conception of geographic information science. Details about the timing and structure of the comprehensive examination can be found in the Department of Geography's Course-Based Program Handbook. Please contact the Graduate Program Director to request a copy of the Department of Geography's Course-Based Program Handbook.

#### Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

For information on awards, see the **Awards and Financial Assistance** section of this Calendar or check the Graduate Awards Database: **[grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards)**.

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

Email address: **<mailto:artsgradsc@ucalgary.ca>**

Web page URL: **[geog.ucalgary.ca](http://geog.ucalgary.ca)**

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-master-science-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/geography-master-science-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Arts requirements, the Department requires the following:

- a) Twelve units in a two-year period, including History and Philosophy of Physical or Human Geography, and at least one graduate-level methods course in Geography.
- b) Four semesters of [GEOG601 Grad Research Seminar](#) (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.
- c) An approved thesis proposal completed within the first year of the program.

For detailed information on courses and program requirements please refer to: [geog.ucalgary.ca](https://geog.ucalgary.ca).

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

## Time Limit

Expected completion time is two years. Maximum completion time is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Each thesis-based graduate student has a supervisor appointed upon entry to the program.

## Research Proposal Requirements

Thesis-based Master's students normally complete a written thesis proposal, approved by the supervisor and two additional examiners, within twelve months of registration in the program.

## Thesis Examination

Thesis examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/geography-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/geography-doctor-philosophy-thesis-based)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- a) A proposal describing applicant's intended research area.
- b) A current curriculum vitae or résumé.
- c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) Six units during the first two years in program, including History and Philosophy of Physical or Human Geography.
- b) Four semesters of [GEOG601 Grad Research Seminar](#) (Graduate Research Seminars). Students may be exempted from a portion of this requirement as determined by the Graduate Program Director.

For detailed information on courses and program requirements please refer to: <https://arts.ucalgary.ca/geography>.

Full-time status is expected. In some situations thesis programs may be completed on a part-time basis with approval from the Graduate Program Director.

For thesis-based students, departures from regular departmental program/course requirements may be recommended on an individual basis by the supervisor with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The department of Geography will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No more than one half of a regular thesis graduate student's coursework can be at the undergraduate level. Eligible undergraduate courses must be at 500 level. Requests for courses at other levels must receive approval of Graduate Program Director. Programs requiring a larger ratio of undergraduate courses must receive approval of the Dean of Graduate Studies at the time of admission.

## Time Limit

Expected completion time is four years . Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Each thesis-based graduate student has a supervisor appointed upon entry to the program. For PhD students, a supervisory committee should be appointed within three months of the appointment of supervisor.

## Research Proposal

Doctoral students must complete a written thesis proposal, approved by the supervisory committee, within twenty months of registration in the program.

## Candidacy

PhD candidacy requirements include a written and an oral Field of Study examination. Specific details of the examination format and other candidacy requirements can be found on the Geography website at <https://geog.ucalgary.ca/graduate/regulations>.

## Thesis Examination

Thesis examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

Normally, the review of the research by the Supervisory Committee will be by presentation and discussion of the student's thesis research at a Supervisory Committee Meeting supported by a relevant written sample of the materials related to the thesis. For master's students that do not have a Supervisory Committee, the Supervisor will review the research.

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Department funding is available to highly ranked thesis students. Financial assistance may be available to qualified thesis students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar or check the Graduate Awards Database: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

Unless otherwise stated, awards are available only to full-time students in thesis programs.

## Overview

### General Program Information

**Program office:** Faculty of Arts, Arts Students' Centre, SS102

**Website:** (TBD)

**Program Co-ordinator email:** (TBD)

For advising, students should consult with the certificate's Program Co-ordinator or a Program Advisor in the [Arts Students' Centre](#).

### Introduction

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

## Admissions

### Program Admissions Information

To be eligible for admission to the Embedded Certificate in Geographic Information Science, students must:

- enrolled in a bachelor's degree program at the University of Calgary
- have completed a total of 45 units of undergraduate coursework before the Fall term they are admitted to the certificate program
- have completed Geography 380: Geospatial Communication with a grade of "C-" or higher

Admission is limited by course and laboratory capacity. In the event that more students apply than there are spaces to accommodate, then admission into the embedded certificate program will be competitive and based on each student's earned GPA over the most recently completed 30 units of coursework.

## Program Details

### Simple Requisites

#### Completion Requirement

##### Type

Completion Requirement

Completion Requirement

**Complete ALL of the following Requirement Sets:**

- Embedded Certificate Completion Requirement

**Additional Comments:**

**Program Requirements**

**Type**

**Completion Requirement**

**Core Courses**

**Earn at least 12 credits from the following:**

- Core Courses: Geography 480, 482 (or Geomatics Engineering 351), 484 (or Geomatics Engineering 435), 485

**Elective Courses**

An additional 6 units from the Field of Geographic Information Science Elective Courses

**Earn at least 6 credits from the following:**

- Field of Geographic Information Science

Students can seek permission from the program coordinator to count toward the certificate requirements a pertinent course not included on the list of electives. This applies to a topics course that addresses a relevant topic.

Students are encouraged to participate in international learning opportunities and can apply to the program coordinator to count courses completed in those settings toward the certificate requirements.

**Additional Comments:**

## Overview

### General Program Information

#### Laddered Pathway from the Graduate Certificate in Geospatial Information Technology to the Master of Geographic Information Systems

Students who complete the Graduate Certificate in Geospatial Information Technology may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the **MGIS - Geo** within five years of beginning the certificate.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [geog.ucalgary.ca](http://geog.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/geospatial-information-technology-certificate](http://grad.ucalgary.ca/future-students/explore-programs/geospatial-information-technology-certificate).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department of Geography requires all applicants to submit:

- A statement of interest outlining the applicant's goals, motivation for applying to the program, and research area of interest.
- A current curriculum vitae or résumé.
- Two reference letters.

For the academic background requirements for the MGIS program or the Graduate Certificate in Geospatial Information Technology, the Department will accept a four-year BA or BSc degree in Geography or in any related field that makes use of spatial data. Examples include, but are not limited to: Anthropology, Archaeology, Biological Sciences, Computer Science, Ecology, Environmental Science, Geology/Geophysics, Geomatics Engineering, History, Management, Mathematics, Political Science, Psychology, Tourism, Transportation Studies or Engineering, and Urban Studies.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

**Complete ALL of the following Courses:**

- GEOG680 - Principles of Digital Cartography and Geovisualization  
**AND** GEOG682 - Fundamentals of Geographic Information Science  
**AND** GEOG684 - Fundamentals of Remote Sensing  
**AND** GEOG686 - Applied Statistics and Geospatial Analysis

#### Additional Comments:

For course-based students, departures from regular departmental program/course requirements may be recommended on an individual basis with approval from the Graduate Program Director.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The department of Geography will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Department of Geography.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate courses towards the Graduate Certificate in Geospatial Information Technology.

### Time Limit

The expected completion time is four months to a maximum completion time of two years.

## Supervisory Assignments

The program will be appointed a faculty member who will act as an academic advisor.

## Overview

### General Program Information

### Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

#### Additional Comments:

#### Courses Constituting the Field of Urban Studies

##### Type

Completion Requirement

Courses Constituting the Field of Urban Studies

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of Urban Studies with at least 18 units at the 300 level or above, while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Urban Studies

## Additional Comments:

### Program Requirements

#### Type

#### Completion Requirement

6 units Urban Studies 253, 591

#### Earn at least 6 credits from the following:

- Urban Studies 253, 591

12 units from the Core courses in Courses Constituting the Field of Urban Studies, excluding Urban Studies 253 and 591

#### Earn at least 12 credits from the following:

- Courses Constituting the Field of Urban Studies

Courses Constituting the Field of Urban Studies

#### Earn at least 12 credits from the following:

- Courses Constituting the Field of Urban Studies

## Additional Comments:

## Overview

### General Program Information

### Contact Information

Website: [arts.ucalgary.ca/geography](https://arts.ucalgary.ca/geography)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

### Program Admissions Information

Prospective students wishing to enter the BA Urban Studies Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

#### Type

#### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

#### Additional Comments:

#### Courses Constituting the Field of Urban Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Urban Studies while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Urban Studies

#### Additional Comments:

#### Program Requirement

##### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 21 credits from the following:

- Core Courses: 15 units Urban Studies 253, 591; Geography 452, 454, 558
- Core Courses: 6 units from Anthropology 379; Canadian Studies 355; Geography 526, 553, 554, 565; History 354; Political Science 425, 433; Sociology 353, 453; Urban Studies 311

#### Research Methods for Urban Studies

#### Earn at least 12 credits from the following:

- A. Qualitative Methods: Anthropology 411; Communication and Media Studies 313, 371; English 302; Geography 483, 583; History 300; Political Science 357; Sociology 313, 413
- B. Quantitative Methods: Geography 485, 585; Political Science 399; Sociology 311, 315; Courses labelled Statistics
- C. Geospatial Methods Geography 480, 482, 567, 582, 586, 588

With a maximum of 6 units from any one of the Qualitative Methods\*, Quantitative Methods or Geospatial Methods lists

*\*In lieu of 3 units in Qualitative Methods, students may take 6 units of language instruction in a single language other than English.*

*Students must contact the Department for approval. Please note: the language courses are not counted as part of the 48 units required in the Field of Study.*

#### Major-Field - Required Options

#### Earn at least 15 credits from the following:

- Courses Constituting the Field of Urban Studies

Including:

- a. 9 units at the 300 level or above
- b. 6 units at the 400 level or above

**Additional Comments:**

#### Degree Options

Type

Completion Requirement

Degree Options

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

#### Overlapping Programs

Programs in Geography cannot be taken in conjunction with programs in: Earth Science; Environmental Science or Urban Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Programs in Earth Science can be taken in conjunction with Environmental Science, Geology, Applied and Environmental Geology or Geophysics with approval from the Faculty of Arts. Consent is required for Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

**Additional Comments:**

## Geomatics Engineering; Department of Department

The Department of Geomatics Engineering is part of the Schulich School of Engineering.

For more information concerning undergraduate program regulations and requirements, refer to the [Schulich School of Engineering](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Geomatics Engineering](#).

## Programs

### Overview

General Program Information

### Contact Information

Engineering Student Centre

Location: Engineering C 205

Student Information: [engginfo@ucalgary.ca](mailto:engginfo@ucalgary.ca) or 403.220.5732

Website: [schulich.ucalgary.ca](http://schulich.ucalgary.ca)

## Introduction

The Schulich School of Engineering at the University of Calgary was established in 1965. The degrees awarded by the Schulich School since its inception have been recognized by the Canadian Engineering Accreditation Board (CEAB). The engineering

curriculum consists of a well-balanced mixture of traditional topics in engineering sciences and specialization in subjects relevant to current industrial practice. The academic staff and students of the Schulich School of Engineering come from all parts of the world, giving the Schulich School its uniquely friendly and international atmosphere.

## Enquiries

Enquiries regarding admission, registration, interpretation of regulations, or any matter regarding undergraduate studies in Engineering should be directed to the Engineering Student Centre, Engineering C 205, telephone 403.220.5732. Students and prospective students are invited to view pertinent information available through the engineering website, [schulich.ucalgary.ca/](http://schulich.ucalgary.ca/).

## Admissions

### Program Admissions Information

Prospective students wishing to enter the Bachelor of Science (BSc) in Geomatics Engineering must meet the criteria listed in section **3.1 Admissions** of this Calendar.

## Program Details

### Simple Requisites

#### Schulich School of Engineering Requirements

##### Type

Completion Requirement

##### School Regulations

##### Complete ALL of the following Requirement Sets:

- Schulich School of Engineering - Registration
- Schulich School of Engineering - Course Work
- Schulich School of Engineering - Academic Performance, Review, and Student Standing
- Schulich School of Engineering - Examinations
- Schulich School of Engineering - Graduation

For other regulations related to the Schulich School of Engineering see **3. Schulich School of Engineering Regulations**.

##### Additional Comments:

#### Geomatics Engineering, Regular Program

##### Type

Completion Requirement

##### First Year Curriculum

##### Common to all programs:

- [First Year Curriculum](#)

##### Geomatics Engineering - Specified Required Courses

##### Earn at least 81 credits from the following:

- Digital Engineering 319, 407
- Electrical Engineering 327
- Geomatics Engineering 333, 343, 351, 363, 401, 419, 421, 423, 431, 435, 443, 451, 455, 465, 501
- 6 units from Geomatics Engineering 500\*

- Mathematics 375
- Physics 369
- 18 units of Geomatics Engineering Technical Electives

*\*Except for students in the Cadastral Surveying Concentration and in the Software Engineering Minor, students may request Department consent to substitute either Engineering 501 and 502, or Engineering 503 and 504 for Geomatics Engineering 500 if they meet the prerequisites for Geomatics Engineering 500.*

#### Complementary Studies - Specified Courses

**Earn at least 12 credits from the following:**

- Engineering 209 (Economics 209) - not open to first-year students
- Engineering 213 or Communications Studies 363
- Engineering 481
- Engineering 513

*The complementary studies course Engineering 213, or Communications Studies 363, or Strategy and Global Management 217, is a corequisite for Geomatics Engineering 401. Students must complete the course before or during the fall term of their third year.*

#### Complementary Studies - General Courses

Two general complementary studies courses are required for students in Geomatics Engineering:

**Earn at least 6 credits from the following:**

- General Complementary Studies Courses

*For Geomatics Engineering Programs (except for Geomatics with Energy and Environment Minor), Strategy and Global Management 395 may be used as a general complementary studies course.*

#### Additional Comments:

#### Geomatics Engineering, Regular Program - Polytechnic Transfer Pathway

##### Type

##### Completion Requirement

#### Geomatics Engineering, Regular Program - Polytechnic Transfer Pathway

The program requirements listed below assume that students admitted to Geomatics Engineering via the Polytechnic Transfer Pathway have been granted transfer credit for Communications Studies 363, Geomatics Engineering 343, 351, 363, 421, 435, and 431 or 455, Mathematics 211 and 275. Students admitted without one or more of these transfer credits will be required to complete the corresponding course(s).

**Complete ALL of the following Course Sets:**

- Digital Engineering 233, 319, 407
- Electrical Engineering 327
- Engineering 200, 202, 204, 212, 225
- Geomatics Engineering 333, 401, 419, 423, 443, 451, 455, 465, 501
- 6 units from Geomatics Engineering 500\*
- Mathematics 277, 375
- Physics 259, 369
- 18 units of Geomatics Engineering Technical Electives

*\*Except for students in the Cadastral Surveying Concentration, students may request Department consent to substitute either Engineering 501 and 502, or Engineering 503 and 504 for Geomatics Engineering 500 if they meet the prerequisites for Geomatics Engineering 500.*

#### Complementary Studies - Specified Courses

**Earn at least 9 credits from the following:**

- Engineering 209 (Economics 209) - not open to first-year students
- Engineering 481
- Engineering 513

*Students in Geomatics Engineering Polytechnic Transfer Pathway are normally not required to take Communications Studies 363 as they receive transfer credit for it.*

#### Complementary Studies - General Courses

Two general complementary studies courses are required for students in Geomatics Engineering:

**Earn at least 6 credits from the following:**

- General Complementary Studies Courses

*For Geomatics Engineering Programs (except for Geomatics with Energy and Environment Minor), Strategy and Global Management 395 may be used as a general complementary studies course.*

#### Additional Comments:

### Geomatics Engineering, Aerospace Engineering Minor

#### Type

Completion Requirement

#### Geomatics Engineering, Aerospace Engineering Minor

In addition to the required courses for Geomatics Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Electrical Engineering 301
- Aerospace Engineering 410, 411
- Electrical Engineering 441
- 3 units of Geomatics Engineering 531, 559, 585, or 587
- 3 units of Aerospace Engineering Technical Electives\*\*
- Engineering 501 and 502\*

**The following Geomatics Engineering Required Courses are NOT required for this program:**

- 3 units of the 6 required units of General Complementary Studies
- 6 units of the 18 required units of Geomatics Engineering Technical Electives
- Geomatics Engineering 500

*\*Students may request Department consent to substitute either Geomatics Engineering 500, or Engineering 503 and 504 for Engineering 501 and 502 if they meet the prerequisites for Geomatics Engineering 500.*

*\*\*Electrical Engineering 519: Topic 61 is the only topic that can be used toward the Aerospace Engineering Technical Electives.*

#### Additional Comments:

### Geomatics Engineering, Biomedical Engineering Minor

#### Type

Completion Requirement

#### Geomatics Engineering, Biomedical Engineering Minor

In addition to the required courses for Geomatics Engineering the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Biomedical Engineering 301, 309, 401, 415

- 9 units of Biomedical Engineering Technical Electives
- Engineering 501 and 502\*

**The following Geomatics Engineering Required Courses are NOT required for this program:**

- 9 units of the 18 required units of Geomatics Engineering Technical Electives
- 3 units of the 6 required units of General Complementary Studies
- Geomatics Engineering 500

*\*Students may request Department consent to substitute either Geomatics Engineering 500, or Engineering 503 and 504 for Engineering 501 and 502 if they meet the prerequisites for Geomatics Engineering 500.*

**Additional Comments:**

#### **Geomatics Engineering, Digital Engineering Minor**

**Type**

**Completion Requirement**

Geomatics Engineering, Digital Engineering Minor

In addition to the required courses for Geomatics Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Digital Engineering 311, 410, 411
- Engineering 501 and 502\*
- 12 units of Digital Engineering Technical Electives

**The following Geomatics Engineering Required Courses are NOT required for this program:**

- 12 units of Geomatics Engineering Technical Electives
- Geomatics Engineering 500

*\*Students may request Department consent to substitute either Geomatics Engineering 500, or Engineering 503 and 504 for Engineering 501 and 502 if they meet the prerequisites for Geomatics Engineering 500.*

**Additional Comments:**

#### **Geomatics Engineering, Energy and Environment Minor**

**Type**

**Completion Requirement**

Geomatics Engineering, Energy and Environment Minor

In addition to the required courses for Geomatics Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Energy and Environment, Engineering 355, 377
- Energy Management 301
- Science 529
- Engineering 501 and 502\*
- 6 units of Energy and Environment Technical Elective Courses

**The following Geomatics Engineering Required Courses are NOT required for this program:**

- 3 units of the 6 required units of General Complementary Studies

- 6 units of the 18 required units of Geomatics Engineering Technical Elective Courses
- Geomatics Engineering 500

*\*Students may request Department consent to substitute either Geomatics Engineering 500, or Engineering 503 and 504 for Engineering 501 and 502 if they meet the prerequisites for Geomatics Engineering 500.*

**Additional Comments:**

#### **Geomatics Engineering, Software Engineering Minor**

##### **Type**

Completion Requirement

Geomatics Engineering, Software Engineering Minor

In addition to the required courses for Geomatics Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Software Engineering for Engineers 300, 409, 444, 480
- 3 units from Software Engineering for Engineers 544, 545, Software Engineering 513, Electrical Engineering 563, 573, Computer Engineering 509, 517
- 6 units from Geomatics Engineering 537, 551
- 6 units from Geomatics Engineering 531, 545, 559, 585, 563

**The following Geomatics Engineering Required Courses are NOT required for this program:**

- 18 units of Geomatics Engineering Technical Electives

**Additional Comments:**

#### **Geomatics Engineering, Concentration in Cadastral Surveying**

##### **Type**

Completion Requirement

Geomatics Engineering, Concentration in Cadastral Surveying

In addition to the required courses for Geomatics Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Geomatics Engineering 531, 545, 559, 579, 581
- Strategy and Global Management 395

**The following Geomatics Engineering Required Courses are NOT required for this program:**

- 3 units of the required units of General Complementary Studies
- 15 units of the 18 required of Geomatics Engineering Technical Electives

Students who complete a BSc in Geomatics Engineering with a Concentration in Cadastral Surveying are eligible to obtain a Certificate of Completion of Academic Requirements for Professional Surveyors from the Canadian Board of Examiners for Professional Surveyors (CBEPS). For more information about CBEPS and professional registration of land surveyors refer to their website: [cbeeps-cceag.ca](http://cbeeps-cceag.ca).

**Additional Comments:**

#### **BSc Geomatics Engineering/BComm Combined Degree Program**

##### **Type**

## Completion Requirement

Required Courses – BSc Geomatics Engineering/BComm Combined Degree Program

In addition to the required courses for Geomatics Engineering, students must complete courses for the Bachelor of Commerce. Refer to the [Haskayne School of Business](#) and the [Bachelor of Commerce](#) for more information.

**Complete ALL of the following Course Sets:**

- Economics 201†
- Economics 203†
- Junior English (3 units)†
- Strategy and Global Management 217†

†The courses listed above are required for the Bachelor of Commerce and are used to substitute for some of the Complementary Studies (listed above) in the Geomatics Engineering, Regular Program.

**The following Chemical Engineering Required Courses are NOT required for this program:**

- Engineering 209 (Economics 209)
- Engineering 213 or Communications Studies 363
- 6 of the 6 units of General Complementary Studies
- 6 units of the 18 required units of Geomatics Engineering Technical Electives

**Additional Comments:**

## Degree Options

### Type

### Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Schulich School of Engineering - Combined Degrees
- Schulich School of Engineering - Minors
- Minor Programs
- Embedded Certificates
- Engineering Internship Program

**Additional Comments:**

## Overview

### General Program Information

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Geomatics Engineering program.

### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/geomatics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geomatics-engineering-master-engineering-course-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements:

Students must complete 30 units of coursework as follows:

- a) 12 units of required courses:

##### Complete ALL of the following Courses:

- ENGG680 - Introduction to Digital Engineering  
**AND** ENGO634 - (ENGO 431) Principles of Photogrammetry  
**AND** ENGO641 - (ENGO 451) Design and Implementation of Geospatial Information Systems  
**AND** ENGO650 - (ENGO 465) Satellite Positioning

Note: students with a BSc in Geomatics Engineering can replace **ENGO634 (ENGO431)Prncpls of Phtgrmmtry** and **ENGO650 (ENGO465)Satellite Positioning** with other graduate courses with approval of the Graduate Program Director.

- b) A minimum of 9 units of geomatics engineering graduate courses.

c) A minimum of 3 units of engineering graduate courses from the following list:

**Complete ANY of the following Courses:**

- ENGG683 - Innovation and Entrepreneurship  
**OR** ENGG684 - Introduction to Project Management  
**OR** ENGG687 - Ethics, Law, and the Engineering Profession

d) A maximum of 6 units graduate courses with approval by Graduate Program Director.

For students completing the **Master of Engineering (MEng), course-based with Internship:**

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Independent Study Courses

Course-based Master of Engineering students can have no more than three independent study courses count towards their degree requirements.

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

In addition, the Department offers a designated set of graduate courses in each of the specialization areas and interdisciplinary areas. Additional graduate courses are offered as Special Studies and Project courses.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

#### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

#### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion times are six years for a Master of Engineering (course-based). The Master of Engineering, course-based with Internship is normally a three-year program.

See individual program pages on the Future Students [website](#).

#### Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Positioning, Navigation and Wireless Location
- Geodesy, Remote Sensing and Earth Observation
- Digital Imaging Systems
- GIScience and Land Tenure
- [Energy&Env](#)
- [Environ En](#)
- [Wearable T](#)

Location: Schulich School of Engineering, 'E' Block

Program number: 403.220.5821

Email address: <mailto:geo.grad@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/geomatics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geomatics-engineering-master-science-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters are required for thesis-based (MSc) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have

been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) A minimum of 12 units at the graduate level, with no fewer than 6 units of Geomatics Engineering specific graduate courses.
- b) Professional Development Seminars ([ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#)).
- c) A thesis related to original engineering research.

#### Independent Study Courses

Thesis-based Master's students can have no more than one independent study course count towards their degree requirements.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

In addition, the Department offers a designated set of graduate courses in each of the specialization areas and interdisciplinary areas. Additional graduate courses are offered as Special Studies and Project courses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

#### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Not applicable.

#### Time Limit

Typical completion time is one to two years for full-time students in a master's program. Maximum completion time is four years.

See individual program pages on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs>.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [academic regulations](#)) and are approved by the Department Head or the Graduate Program Director.

## Research Proposal Requirements

A thesis proposal accepted by the supervisor is required no later than 16 months after initial registration. The thesis topic should deal with original theoretical or practical research in Geomatics Engineering.

The thesis proposal should include the following:

1. Statement of the problem.
2. Research objectives.
3. Literature review.
4. Methodology and procedures.
5. Outline of thesis contents.
6. Proposed time schedule.
7. Bibliography and references.

## Required Examinations

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

## Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Schulich School of Engineering minimum requirements are as follows:

### *Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Positioning, Navigation and Wireless Location
- Geodesy, Remote Sensing and Earth Observation
- Digital Imaging Systems
- GIScience and Land Tenure
- [Energy&Env](#)
- [Environ En](#)
- [Wearable T](#)

Location: Schulich School of Engineering, 'E' Block

Program number: 403.220.5821

Email address: [geo.grad@ucalgary.ca](mailto:geo.grad@ucalgary.ca)

Web page URL: <https://schulich.ucalgary.ca/geomatics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/geomatics-engineering-doctor-philosophy-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- a) MSc degree, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- b) A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- c) Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- d) Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

## Program Details

### Simple Requisites

Program/Course Requirements
Type

## Completion Requirement

### Additional Comments:

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- a) A minimum of 9 units at the graduate level beyond the Master of Science course requirements, with no fewer than 3 units of Geomatics Engineering specific graduate courses. For students who transfer from a Master of Science to a doctoral program, a minimum of 6 units at the graduate level beyond the Master of Science course requirements.
- b) Professional Development Seminar ([ENGG601 Professional Development I](#) and [ENGG603 Professional Development II](#)).
- c) A thesis proposal that includes a literature review and the Field of Study written and oral examinations (see Candidacy and Required Examinations).
- d) A thesis related to advanced original engineering research.

### Independent Study Courses

Doctor of Philosophy students can have no more than one independent study course count towards their degree requirements. Students who transfer from the Master of Science to the Doctor of Philosophy program can have no more than two independent study courses count towards their degree requirements.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

In addition, the Department offers a designated set of graduate courses in each of the specialization areas and interdisciplinary areas. Additional graduate courses are offered as Special Studies and Project courses.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Typical completion time is three to four years in a doctoral program. Maximum completion time is six years for a doctoral program.

See individual program pages on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs>.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

### Supervisory Assignments

## **Supervisory Assignments**

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [graduate academic regulations](#)) and are approved by the Department Head or the Graduate Program Director.

## **Research Proposal Requirements**

The doctoral thesis proposal requirements, including the outline of the proposal's contents, are the same as those for the Master of Engineering (thesis-based). The thesis must demonstrate the candidate's ability to pursue original research at a high level and represent a distinct advance in knowledge on the subject. The research should be of the recognized standard of technical journals requiring critical review. The supervisor and supervisory committee will normally require progress reports every six months during the doctoral program.

The thesis proposal should include the following:

1. Statement of the problem.
2. Research objectives.
3. Literature review.
4. Methodology and procedures.
5. Outline of thesis contents.
6. Proposed time schedule.
7. Bibliography and references.

## **Required Examinations**

In addition to the Faculty of Graduate Studies requirements, the program requires:

### **Candidacy**

To be admitted to candidacy, doctoral students must successfully complete a thesis proposal evaluation and a written field of study examination and an oral examination on the thesis proposal. See [Geomatics Engineering Doctoral Candidacy Requirements](#) for more information.

### **Thesis Examination**

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Schulich School of Engineering minimum requirements are as follows:

### **Doctoral Final Oral Examination**

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

#### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Wearable Technology at the master's and doctoral levels for students registered in the following faculties and graduate programs:

- Faculty of Kinesiology
- Biomedical Engineering Graduate Program
- Geomatics Engineering Graduate Program
- Department of Electrical and Software Engineering
- Department of Computer Science
- Department of Psychology
- Computational Media Design Graduate Program

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

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Faculty of Kinesiology

Location: KNB 269

Program number: 403.220.7019

Email address: <mailto:kirsten.penrose@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates/our-programs/wearable>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Wearable Technology specialization are available on the Future Students website for the home graduate program.

- [MSCT Kines](#)
- [PHD Kinesi](#)
- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Geoma](#)
- [PHD Geomat](#)
- [Engineerin](#)
- [Engineerin](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Comp](#)
- [PhD Comp M](#)
- [MSCT Psych](#)

- [PHD Psycho](#)

Applicants must meet the [admission](#) requirements of the Faculty of Graduate Studies and the home program that offers the Wearable Technology specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

##### MSc (thesis-based)

In addition to meeting the requirements of Faculty of Graduate Studies ([see regulations](#)) and the home program, MSc students in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, supervisor, and supervisory committee.

##### Doctor of Philosophy

In addition to meeting the requirements of Faculty of Graduate Studies and the home program, PhD trainees in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)\*
4. One (3 unit) elective in Biomechanics, OR Data Science, OR Data Visualization\*\* at the 600 or 700 level.

*\*With the support of the student's home program and Faculty of Graduate Studies, the student may complete Kinesiology 612 either before or after admission to candidacy.*

*\*\*Must be approved by the specialization Director, the student's Supervisor and Supervisory Committee.*

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, Supervisor, and Supervisory Committee.

Students are expected to attend the annual Wearable Technology Workshop held each Fall semester and participate in the Wearable Technology Lecture series.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process.

### Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

### Supervisory Assignments

See requirements of home program.

### Required Examinations

See requirements of home program and the Faculty of Graduate Studies ([Academic Regulations](#)).

### Financial Assistance

See home program.

## Haskayne School of Business Department

Summary of Degree Programs

Business School Information

Business School Regulations

Program Details

Administration

Courses of Instruction by Haskayne School of Business

## Programs

### Overview

#### General Program Information

The DBA is a full-time, doctoral program that allows senior-level professionals to complete the degree while continuing their career. The program provides flexibility, with in-person learning complimented with online learning sessions. It combines graduate-level courses with a rigorous research component, including a thesis, based on independent inquiry developed under the guidance of a supervisor assigned during the first 12 months of the program.

Location: Scurfield Hall, Room 333

Phone: 403.220.5685

Email address: [dbarequest@haskayne.ucalgary.ca](mailto:dbarequest@haskayne.ucalgary.ca)

Web page URL: <https://haskayne.ucalgary.ca/programs/dba>

## Admissions

### Program Admissions Information

See the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/management-dba>.

In addition to the Faculty of Graduate Studies requirements for [Admission](#), the program requires:

a) At least 10 years of management experience, including seven years at the senior management or executive level, or at least five years' experience as lecturer/instructor in a relevant field in a college or university program.

- b) A post-baccalaureate degree (e.g., MBA or relevant business-focused Master's degree) from a recognized institution with a minimum grade point average of 3.50 on a four-point scale. Students presenting credentials in an area other than business may be required to complete a qualifying period to gain a general business background before beginning the regular doctoral course requirements.
- c) Students who do not present an MBA or other master's degree from a recognized postsecondary institution may be considered for admission. Exceptional candidates with a four-year bachelor's degree (i.e, a GPA of 3.50 or higher) who have substantial managerial experience will also be considered. Consult the DBA Program Director for further information.
- d) For those students required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test), or a minimum IELTS Academic score of 7.5, or a minimum CAEL score of 70 with a minimum of 70 in each component, or a minimum PTE score of 75. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- e) Current CV.
- f) Three reference letters from professionals or academics who are knowledgeable about the applicant's career. References from personal friends or relatives will not be accepted.
- g) Completion of a series of essays including a personal statement outlining objectives, intent and commitment to a research program. Additional details can be found [here](#).
- h) Availability of a research-active supervisor and resources for the area in which the student wishes to study.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the DBA program with an online non-refundable deposit of \$3,000.

The deposit will be credited toward tuition fees upon registration.

### Program Details

#### Simple Requisites

##### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the program requires a minimum of 24 units. Twenty-one of these are from seven core courses required of all students. In addition, students fulfill 3 units from one elective course. Typically, students will complete the minimum of 24 units over the first 18 months of the program.

a) 21 units of core courses:

##### Complete ALL of the following Courses:

- MGST703 - Philosophy of Science for Business Administration  
**AND** MGST705 - Introduction to Research  
**AND** MGST707 - Research Development and Design  
**AND** MGST709 - Qualitative Research Methods  
**AND** MGST711 - Quantitative Design and Analysis  
**AND** MGST714 - Engaged Scholarship and the Use of Evidence  
**AND** SGMA707 - Advanced Strategic Management Tools

b) 3 units chosen from:

##### Earn at least 3 credits from the following:

- MGST746 - Topics in Business Management  
**OR** MGST748 - Topics in Advanced Business Management

**Additional Comments:**

Attendance at an orientation session is expected for all incoming DBA students.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

Advanced Credit may be given on a case-by-case basis, with approval of the DBA Director.

**Flexible Grade Option (CG Grade)**

Students admitted to the Doctor of Business Administration program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

**Time Limit**

Typically, students are expected to complete the degree in four years. Students have a maximum of six years from the start of their program to complete all degree requirements.

**Supervisory Assignments and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

Doctoral students are required to have secured a permanent supervisor within the first 12 months of their program. A supervisory committee reflective of the student's research interests is required within three months after the permanent supervisor has been approved.

**Required Examinations**

**Candidacy**

To be admitted to candidacy, doctoral students must successfully complete a written field of study examination and an oral examination on the thesis proposal. For complete details of the candidacy requirements, see the DBA Candidacy Requirements document at <https://haskayne.ucalgary.ca/sites/default/files/DBA/DBA-Curriculum.pdf>.

Students whose research involves human subjects must receive approval from the Haskayne School of Business and from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

**Thesis Examination**

Students will complete an oral thesis examination at the end of their program. The student presentation portion of the thesis examination is public. In addition to the Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## Composition of the Committee

The Internal Examiner may be internal to the home program.

## Overview

### General Program Information

## Contact Information

**Location:** Mathison Hall 206

**Email address:** [undergraduate@haskayne.ucalgary.ca](mailto:undergraduate@haskayne.ucalgary.ca)

**Website:** [haskayne.ucalgary.ca/future-students/bcomm](http://haskayne.ucalgary.ca/future-students/bcomm)

## Admissions

### Program Admissions Information

For Haskayne School of Business admission information see [3.1 Admissions](#).

## BComm Requirements for Direct Entry Students

### Admission

Applicants planning to enter the BComm program directly from high school must meet the admission requirements outlined in section [A.5.1.1 Admission Requirements](#).

Additional and/or alternate admission requirements may exist for entrance into a Combined Degree program as outlined below in Admission Requirements for Combined Degrees.

Applicants are advised to contact Haskayne Undergraduate Student Services for details and assistance with program planning.

## Recommended Program Sequence – Year 1

Students directly admitted from high school are advised to complete up to 30 units over the Fall and Winter Terms of their first year as outlined below. Ahead of registration, students are cautioned to consult course descriptions. The pre- or co-requisites listed within each course description (if any), will drive the selection and term sequencing, not the order in which the requirements appear in the following lists.

It is recommended that the following graduation requirements be taken in first year:

1. Economics 201 ([ECON201 Principles of Microeconomics](#))
2. Economics 203 ([ECON203 Principles of Macroeconomics](#))
3. Junior English
4. Management Studies 217 ([MGST217 Intro to Business Analytics](#))
5. Mathematics 249 ([MATH249 Introductory Calculus](#)) or 265 ([MATH265 University Calculus I](#))
6. Statistics 213 ([STAT213 Introduction to Statistics I](#))
7. Strategy and Global Management 217 ([SGMA217 Intro to Business Skills](#))

In addition to the 21 units listed above, up to 9 units may be selected from the list below in order to complete Year 1 registration:

1. Accounting 217 ([ACCT217 Introductory Financial Acct](#))
2. Statistics 217 ([STAT217 Introduction to Statistics II](#))
3. Junior Commerce or Non-Commerce Option (3 units) (1), (2), (3)
- 4.-6. Junior Non-Commerce Option (9 units) (1), (2), (3)

**Note:** First-year students are restricted to junior (200-level) courses in their first year. Prior to registering in senior (300-level) courses, 18 units at the junior level must be successfully completed.

(1) Students are advised to refer to [3.3 Course Work](#)

(2) Students who wish to pursue a Concentration in International Business Strategy are advised that demonstrated proficiency equivalent to two courses in ONE modern language other than English is a requirement of this Concentration. A modern language minor is recommended. Refer to the Program Details tab for further details.

(3) Data Science 201 ([DATA201 Thinking with Data](#)) and University 201 ([UNIV201 Global Challenges Inquiry I](#)) are recommended courses for students interested in applying to the research-based Honours program in a subsequent year. Refer to BComm Honours Program (below) for further details.

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## BComm Pre-Commerce Requirements for Transfer Students (including Change of Program)

### Admission

1. Applicants planning to enter the BComm program from a post-secondary institution (including the University of Calgary) must meet the admission requirements outlined in section [A.5.3.1 Transfer Admission Requirements](#). Change of Program students are considered for admission under these same transfer admission regulations.

Assistance with program planning is available through Haskayne Undergraduate Student Services.

2. The grade point average for determining admission will be calculated as outlined in [A.5.3 Transferring from another Post-Secondary Institution](#) - Transfer Admission GPA, after the Fall Term. Admitted students completing courses during the Winter Term must remain in good academic standing to maintain their offer of admission.

3. Courses or their equivalents presented to fulfill admission requirements must not have been repeated more than once.

4. Admitted students are advised that a maximum of 12 units with "D" or "D+" grades will be used to fulfil degree requirements. The minimum grade required in a pre-commerce course or in a course that serves as a prerequisite is "C-" unless the course serves as the prerequisite to the concentration sought, in which case it must be a "C". Refer to the Program Details tab/BComm Graduation Requirements/Concentrations.

5. Additional and/or alternate admission requirements may exist for entrance into a Combined Degree program as outlined on the Program Details tab, under Degree Options. Prospective applicants are advised to contact Haskayne Undergraduate Student Services for details.

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### Requirements

The following 18 prescribed units constitute the pre-commerce requirements for transfer (including Change of Program) applicants and must be completed as outlined in section [A.5.3.1 Transfer Admission Requirements](#):

1. Economics 201 ([ECON201 Principles of Microeconomics](#))
2. Mathematics 249 ([MATH249 Introductory Calculus](#)) or 265 ([MATH265 University Calculus I](#)) or equivalent
3. Statistics 213 ([STAT213 Introduction to Statistics I](#))
4. Junior English
5. Economics 203 ([ECON203 Principles of Macroeconomics](#))
6. Statistics 217 ([STAT217 Introduction to Statistics II](#))

In addition, the 12 units below fulfill BComm graduation requirements and it is strongly recommended that these be taken to complete a prospective student's remaining Year 1 registration:

7. Junior Commerce or Non-Commerce Option (3 units) (1), (2), (3)
- 8.-10. Junior Non-Commerce Options (9 units) (1), (2), (3)

**Note:** These courses need not necessarily be taken in the sequence indicated. Students should consult course descriptions in the latter section of this Calendar for prerequisites.

(1) Students are advised to refer to [3.3 Course Work](#)

(2) Students who wish to pursue a Concentration in International Business Strategy are advised that demonstrated proficiency equivalent to two courses in ONE modern language other than English is a requirement of this Concentration. A modern language minor is recommended. Refer to the Program Details tab for further details.

(3) *Data Science 201* ([DATA201 Thinking with Data](#)) and *University 201* ([UNIV201 Global Challenges Inquiry I](#)) are recommended courses for students interested in applying to the research-based Honours program in a subsequent year. Refer to BComm Honours Program (below) for further details.

## BComm Honours Program

### Application

Continuing Haskayne School of Business Bachelor of Commerce students (any concentration), may apply for the Honours program. Applications are considered for the Fall Term only.

Prospective applicants must meet the admission requirements listed below and must submit a Change of Program request through their Student Centre. Deadline date information is found in this Calendar in Academic Regulations' section [D. Change of Faculty or Program](#). A supplementary application package will be sent to Change of Program applicants by the Haskayne School of Business.

### Admission Requirements

Applicants to the BComm (Honours) program must have successfully completed a minimum of 48 units by the Fall term to which they are seeking admission, including the following six prescribed courses completed no later than in the preceding Winter Term:

1. Entrepreneurship and Innovation 317 ([ENTI317 Entrepreneurial Thinking](#))
2. Management Studies 217 ([MGST217 Intro to Business Analytics](#))
3. Management Studies 391 ([MGST391 Business Analytics](#))
4. Strategy and Global Management 217 ([SGMA217 Intro to Business Skills](#))
5. Statistics 213 ([STAT213 Introduction to Statistics I](#))
6. Statistics 217 ([STAT217 Introduction to Statistics II](#))

Admission to the program is based on the calculation of the grade point average over the most recent course work to a maximum of 30 graded units (University of Calgary courses and/or transfer courses taken at other institutions). All grades within a term are included except where the number of courses taken within a term exceeds that required to fulfill (to a maximum of) 30 units, in which case the highest grades are used. Applicants must have a minimum grade point average of 3.30 (calculated as outlined above), as well as a minimum grade point average of 3.30 over the six prescribed courses. Spring Intersession courses taken after May 1 in the year of admission are not used in the calculation of the grade point averages.

In addition to meeting the minimum grade point averages, applications are evaluated on the basis of an interview and the documents submitted in the admission application package.

Admission is competitive and meeting the minimum requirements is not a guarantee for admission. The business school reserves the right to limit the number of students admitted into the BComm (Honours) program. Students on academic sanction are not eligible for the BComm (Honours) program.

## Program Details

### Simple Requisites

#### BComm Graduation Requirements

##### Type

Completion Requirement

##### Graduation Requirements

All candidates for the Bachelor of Commerce degree must fulfill the following requirements:

1. An approved program with a minimum of 120 units. A minimum grade point average of 2.00 (or 3.30 for BComm (Honours) candidates), must be achieved over all 120 units.
2. A minimum "C-" grade in the Junior English, Management Studies 451 ([MGST451 Corp Gov & Ethical Dec-Making](#)), Management Studies 453 ([MGST453 Ethical Leadership](#)), Management Studies 503 ([MGST503 Capstone Appl'd](#))

**Rsrc'h Proj II)** (Honours candidates), and Strategy and Global Management (**SGMA591 Strategic Management**). A minimum "C-" grade, or "CG" to a total degree maximum of 9 units, in each course permitted to fulfill the concentration requirements, except where the course serves as the concentration prerequisite, in which case a minimum "C" grade is required. A maximum of 12 units with "D" or "D+" grades in non-concentration and non-prerequisite courses.

3. A maximum of 60 units taken at other institutions and acceptable for transfer credit may be counted toward the Bachelor of Commerce Degree. A maximum of 18 units taken at other institutions and acceptable for transfer credit as Haskayne School of Business courses may be counted toward the Bachelor of Commerce Degree.

4. The following courses or their equivalents presented for graduation must be completed within 10 years or less of the graduation date: the 3 units Junior English, Mathematics 249 (**MATH249 Introductory Calculus**) or Mathematics 265 (**MATH265 University Calculus I**), Economics 201 (**ECON201 Principles of Microeconomics**) and Economics 203 (**ECON203 Principles of Macroeconomics**), Statistics 213 (**STAT213 Introduction to Statistics I**) and Statistics 217 (**STAT217 Introduction to Statistics II**), and all Commerce courses.

The following courses, or their equivalents, constitute the Bachelor of Commerce program:

#### Commerce Courses (63 units)

**Earn at least 63 credits from the following:**

- Management Studies 217†
- Strategy and Global Management 217†
- Accounting 217†
- Accounting 323†
- Business Technology Management 317†
- Entrepreneurship and Innovation 317†
- Finance 317†
- Marketing 317†
- Operations Management 317†
- Organizational Behaviour and Human Resources 317†
- Management Studies 391†
- Strategy and Global Management 395†
- Management Studies 451†
- Management Studies 453†
- Strategy and Global Management 591†
- Concentration: (18 units) from one Concentration (listed below)

#### Non-Commerce Courses (39 units)

**Earn at least 39 credits from the following:**

- Economics 201†
- Economics 203†
- Junior English (3 units)†
- Mathematics 249† or 265†
- Statistics 213†
- Statistics 217†
- Junior Non-Commerce Options\* (9 units)
- Senior Non-Commerce Options (12 units)

#### Commerce or Non-Commerce Courses (9 units)

**Earn at least 9 credits from the following:**

- Junior Commerce or Non-Commerce Option (3 units)
- Senior Commerce or Non-Commerce Options\* (6 units)

#### Program-Specific Courses (9 units)

**Complete at least 1 of the following:**

BComm (non-Honours):

**Complete ALL of the following Course Sets:**

- Senior Commerce or Non-Commerce Options\* (9 units)

OR

BComm (Honours):

**Complete ALL of the following Course Sets:**

- Management Studies 301†
- Management Studies 501†
- Management Studies 503†

†Course or subject (or equivalent) is not eligible for a CG grade, nor applicable towards degree completion when presented with a CG grade.

\*Concentration course may be required.

**Notes:**

- Junior = 200-level and Senior = 300-level and above
- Students are advised to refer to [3.3 Course Work](#).
- Course sequencing information for students is available in Haskayne Undergraduate Student Services.
- At the time of graduation, students who have not achieved a GPA of 3.30 over all 120 units will be awarded a BComm (i.e., without the Honours designation).

Concentration: (18 units) from one Concentration (listed below)

**Bachelor of Commerce Concentration Requirements**

In order to pursue any concentration in the Bachelor of Commerce program, students must achieve a minimum grade of "C" in the required core course(s) which is (are) prerequisite(s) for that concentration: Accounting 217† ([ACCT217 Introductory Financial Acct](#)) and 323† ([ACCT323 Introductory Managerial Acct](#)); Business Technology Management 317† ([BTMA317 Intro Business Technology Mgmt](#)); Entrepreneurship and Innovation 317† ([ENTI317 Entrepreneurial Thinking](#)); Finance 317† ([FNCE317 Financial Management](#)); Management Studies 391† ([MGST391 Business Analytics](#)); Marketing 317† ([MKTG317 Foundations of Marketing](#)); Operations Management 317† ([OPMA317 Fund Op & Supply Chain Mgmt](#)); Organizational Behaviour and Human Resources 317† ([OBHR317 Organizatn'l Behaviour Hum Res](#)); Real Estate Studies 317† ([REAL317 Real Estate Dev & Urbanization](#)); Risk Management and Insurance 317† ([RMIN317 Intro to Risk Mgmt & Insurance](#)); Professional Land Management 475† ([PLMA475 Intro Professional Land Mgmt](#)); Strategy and Global Management 371† ([SGMA371 International Business](#)).

†Course (or equivalent) is not eligible for a CG grade, nor applicable towards degree completion when presented with a CG grade.

**Complete at least 1 of the following requirement sets:**

- Accounting (ACCT) Concentration
- Business (BUSI) Concentration
- Business Analytics (BANA) Concentration
- Business Technology Management (BTMA) Concentration
- Energy and Professional Land Management (EPLM) Concentration
- Entrepreneurship and Innovation (ENTI) Concentration
- Finance (FNCE) Concentration
- International Business Strategy (IBST) Concentration
- Marketing (MKTG) Concentration

- Operations Management (OPMA) Concentration
- Organizational Behaviour and Human Resources (OBHR) Concentration
- Personal Financial Planning (PFPL) Concentration
- Real Estate Studies (REAL) Concentration
- Risk Management and Insurance (RMIN) Concentration
- Risk Management: Insurance and Finance (RMIF) Concentration
- Supply Chain Management (SCMA) Concentration

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

**Combined Degrees**

**General Requirements**

Students may elect to complete the Bachelor of Commerce degree in combination with another approved undergraduate degree. Five-year combined degree programs are sponsored jointly by the Haskayne School of Business and a second Faculty, and lead to two Bachelors' degrees awarded at the same convocation ceremony. The program is comprised of a minimum of 150 units, including all requirements of the two Faculties.

Early contact with advisors from each of the two Faculties ensures that admission and graduation requirements are met in a reasonable timeframe and within the minimum 150 units. Advisors are available to assist students with course planning and program details.

With the exception of the BSc (Engineering)/BComm degree which will be administered by the Schulich School of Engineering, combined degree students shall be registered under the Haskayne School of Business for administrative purposes.

Students may elect to remain in the combined degree or switch to either of the two separate degree programs, as long as the requirements of each Faculty continue to be met.

Failure to meet requirements will result in a student being denied further registration or required to withdraw from the combined or separate programs, as the case may be. The academic regulations of each Faculty concerning student standing and progression apply equally for combined degree students.

Any Bachelor of Commerce Concentration may be chosen in combination with those Majors listed below. Students wishing to also focus their non-commerce options in one area of study are cautioned that Minors in Management and Society, Entrepreneurship and Enterprise Development, and Workplace Learning are not permitted within the combined degree. Consultation with student advisors in Haskayne Undergraduate Student Services regarding choices for a Minor is required.

**Complete ANY of the following Requirement Sets:**

- Combined BComm/BA or BSc (Arts)
- Combined BComm/BSc (Actuarial Science or Mathematics)
- Combined BComm/BSc (Computer Science)
- Combined BComm/BKin (Kinesiology) Program
- Combined BSc (Engineering)/BComm

**Co-operative Education Program**

**Introduction**

All continuing Bachelor of Commerce students are eligible to apply for admission to the Co-operative Education program, with the exception of BSc (Engineering)/BComm combined degree students who are directed to apply to the Engineering Internship program instead. The Co-operative Education program normally includes 8 to 16 months of supervised paid work experience in various private companies and government agencies in addition to 120 units required for the Bachelor of Commerce degree program.

In addition to the Haskayne School of Business regulations governing the Bachelor of Commerce degree and the Co-operative Education program, University of Calgary Co-operative Education regulations apply. Refer to the Work-Integrated Learning section at the front of this Calendar for additional information.

Students who wish to pursue the Co-operative Education option are urged to discuss program regulations and course selection with Haskayne Undergraduate Student Services early in their program.

### Admission

General Co-operative Education program admission requirements are outlined in Work-Integrated Learning section **3.1 Admissions** at the front of this Calendar. In addition:

1. Prospective Business Co-operative Education students must complete a Co-operative Education application form. Application and deadline information is available on the Haskayne School of Business Co-operative Education website.
2. Prospective Co-op students who present Strategy and Global Management 303 (**SGMA303 Personal Career Strategies**) with a "B" or higher will be exempt from submitting their resume and letter of intent as part of their Co-op application package. Those joining the Co-op program without Strategy and Global Management 303 (**SGMA303 Personal Career Strategies**) may be required to complete a variety of further activities to learn necessary material covered in the course.
3. Admission is competitive, based on a review of the student's skills, attitudes, and academic record. A minimum GPA of 2.50, calculated on the most recent 30 graded units, is required for admission consideration. Students may be required to attend an interview to assess their suitability for admission.
4. Applicants with 90 or more units completed towards the Bachelor of Commerce degree requirements may not be eligible for admission into the Co-operative Education program and are strongly encouraged to speak with Haskayne Undergraduate Student Services prior to applying for admission.
5. Students are required to pay a non-refundable Co-operative Education admission fee. Details are available in section **P.4.7 Undergraduate Co-operative Education/Internship Fees**. In addition, they are required to sign the Co-op Student Agreement.

### Transfer Credit

1. Students admitted into the Haskayne School of Business Co-operative Education program who wish to transfer the credit of a Co-operative Education work term either from another faculty within the University of Calgary or from another institution, may email [coop@haskayne.ucalgary.ca](mailto:coop@haskayne.ucalgary.ca) to request that credit be applied.
2. Credit "by special assessment" for work experience outside of a Co-operative Education work term is not awarded.
3. Bachelor of Commerce Co-operative Education students are required to complete a minimum of two four-month work terms, one of which must be completed while registered in the Haskayne School of Business Co-operative Education program.

### Pre-Work Term Requirements

Before a Co-operative Education student's first work term commences, at least 54 units applicable to the Bachelor of Commerce degree program must have been successfully completed. The following must be included:

- **Accounting 217, Management Studies 217, Strategy and Global Management 217 and Entrepreneurship and Innovation 317.**

In addition, it is strongly recommended that at least one 300-level business course relating to the work placement sought be completed prior to the start of employment (e.g., **Finance 317** is strongly recommended to be taken before accepting any Accounting or Finance positions).

### Work Term Course Requirements

In addition to the regular academic and unit requirements of the BComm degree, students pursuing the Co-operative Education designation must successfully complete the following work term courses:

- Co-operative Education 523.01 (**COOP523.01 Co-Op Placement in Business I**) and 523.02 (**COOP523.02 Co-Op Placement in Business II**)

Each of these courses corresponds to a four-month work term. Where the second work term extends beyond 4 months, with the same employer, students will be registered in a corresponding **Co-operative Education 523** for each four month work period. Otherwise, Co-operative Education 523.03 (**COOP523.03 Co-Op Placement Business III**) and 523.04 (**COOP523.04**

**Co-Op Placement in Business IV**) may only be completed with the consent of the business school.

Upon completion of each work term, the student must present a work term report to Haskayne Undergraduate Student Services.

#### Registration

1. Registration in a Co-operative Education 523 course is required for each four-month work term accepted.
2. Students pay a non-refundable academic course fee while on a work term as outlined in **P.1.1 Undergraduate Tuition**, and are considered full-time registered students.
3. Students may not leave a work term or withdraw from **Co-operative Education 523** without the permission of the business school. Permission is only granted in very exceptional circumstances. Refer to Work-Integrated Learning section **2.4 Withdrawal Policies for Co-op and Internship Programs** for more information.
4. Students are required to complete a minimum of one of the required work terms in a Fall or Winter Term; a maximum of one required work term can be completed in the Summer Term (Spring/Summer Intersession).
5. Sequencing of work terms with academic terms is a flexible process which depends upon the availability of work terms, length of work terms (four or eight months) and the student's academic requirements. However, students must end their Co-operative Education program with an academic term consisting of a minimum of nine units.
6. Once the academic requirements of the BComm degree have been met, students are no longer eligible to participate in the Co-operative Education program.
7. Students taking a vacation or a leave during their work term must inform Haskayne Undergraduate Student Services. Students must work a minimum of 13 weeks, not including vacation or a leave.
8. While on a four-month work term, students may take one evening or weekend academic course.

#### Academic Performance

1. Students must remain in good standing. If a student's academic performance results in the student being denied further registration or required to withdraw from the Haskayne School of Business, or being placed on probation, the student will be discontinued or required to withdraw from the Co-operative Education program. If the student is discontinued or required to withdraw from the Co-operative Education program but has already accepted a work term, the employer will be informed that the student is no longer registered in the Co-op program. Termination of the student's employment will be at the employer's discretion.
2. Students who receive a Failure (F) on a work term will be required to withdraw from the Co-operative Education program. For further information please contact Haskayne Undergraduate Student Services.

#### Minor Programs

##### Enroll in the following Requirement Sets:

- Haskayne School of Business - Minor Field

#### Embedded Certificates

##### Enroll in the following Requirement Sets:

- Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Students can complete the Haskayne MBA through full-time study either through the daytime or the evening.

### MBA Specializations:

# UCalgary

- Business Intelligence and Data Analytics
  - Entrepreneurship and Innovation
  - Finance
  - Global Energy Management and Sustainable Development
  - Management Analytics
  - Marketing
  - Project Management
  - Real Estate Studies
- 

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

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In addition to the Faculty of Graduate Studies requirements for admission, the program requires:

- a) A current résumé.
- b) A 250-word response to each of two questions provided as part of the application process.
- c) For applicants required to prove present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20 (Internet-based test), or an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the Academic Communication Certificate with a minimum overall grade of "A-".
- d) The Graduate Management Admission Test (GMAT) is only required for applicants with a degree (from an institution outside of Canada or the United States) with a recommended minimum score of 550 or an equivalent Graduate Record Examination (GRE) score.

Applicants with a degree from an institution in Canada or the United States with a grade point average (GPA) of at least 3.0 on a four-point scale are exempt from submitting a GMAT score. An applicant who has completed a bachelor's degree from an institution in Canada or the United States with a GPA from 2.50 to 2.99, and chooses to submit a GMAT score, may be admitted to an MBA course-based program as a regular student on the basis of the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150$ .

*\*Consult the Haskayne School of Business about the Graduate Management Admission Test.*

- e) Two reference letters.
  - f) For the course-based Day and Evening MBA program only, the equivalent of at least 2 years of appropriate work experience.
  - g) Applicants may be required to participate in an interview.
- 

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the MBA program with an online non-refundable deposit:

Daytime MBA: \$3,000

Evening MBA: \$3,000

Accelerated MBA: \$3,000

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the requirements of the Faculty of Graduate Studies, the Haskayne School of Business requires:

The MBA degree normally consists of 60 units. Students may be granted exemption from required courses based upon prior academic preparation and with the approval of the Graduate Director (MBA Program). Students must complete a minimum of 45 units, of which a maximum of 15 units may be transfer credit from another recognized graduate program, for the MBA degree.

Students who have completed a recognized/accredited four-year BComm degree within the last 10 years may be granted course exemption from 27 units and required to complete a minimum of 33 units for the MBA degree, of which 3 units may be transfer credit from another recognized graduate program.

For students approved for a BComm exemption, requirements normally will be:

**Complete ALL of the following Courses:**

- ENTI601 - Entrepreneurial Thinking  
**AND** OBHR621 - Advanced Leadership
- MGST615 - Strategic Business Analysis  
**OR** ENTI623 - Creative Destruction Lab - Rockies

plus:

- 24 units of elective courses.

#### Specializations

Students must complete 18 units of additional courses beyond the required courses. Within these 18 units, students may select an area of specialization normally consisting of 12 units. Specialization requirements are as follows:

**Complete ANY of the following Requirement Sets:**

- MBA, Business Intelligence and Data Analytics Specialization
- MBA, Entrepreneurship and Innovation
- MBA, Finance
- MBA, Global Energy Management and Sustainable Development
- MBA, Management Analytics
- MBA, Marketing
- MBA, Project Management
- MBA, Real Estate Studies

Students who elect not to choose an area of specialization may choose instead from various graduate courses offered by the Haskayne School of Business. Subject to the approval of the Graduate Director (MBA Program) and the Faculty of Graduate Studies, graduate courses offered at the University of Calgary outside the Haskayne School of Business may also be taken.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### **Advanced Credit**

The applicant must make Advanced Credit requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### **Flexible Grade Option (CG Grade)**

Students admitted to the MBA (course-based) program, Executive MBA program or Executive MBA Specializing in Global Energy program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### **Time Limit**

The day MBA option normally takes 20 months to complete (from first registration), while the evening option normally takes three years. Maximum time limit: six years.

### **Financial Assistance**

#### **Type**

Completion Requirement

#### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## **Overview**

### **General Program Information**

Web page URL: <https://haskayne.ucalgary.ca/graduate-certificate-in-business-intelligence-data-analytics>

## **Admissions**

### **Program Admissions Information**

The closing dates for applications are available on the website: <https://haskayne.ucalgary.ca/graduate-certificate-in-business-intelligence-data-analytics>

In addition to the Faculty of Graduate Studies admission requirements, all applicants must meet the following requirement:

- A Master of Business Administration or Master of Management or equivalent Graduate degree from a recognized/accredited post-secondary institution.

### **Admission Deposit**

Successful applicants will be required to confirm their acceptance of an offer of admission into a Graduate Certificate program with an online non-refundable deposit of \$500.

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business requires:

The Certificate requires 12 units of coursework consisting of:

**Complete ALL of the following Courses:**

- BIMA610 - Data Management and Business Analytics  
**AND** BIMA611 - Enterprise Analysis  
**AND** BIMA612 - Data Analytics I  
**AND** BIMA613 - Data Analytics II

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

No [Advanced Credit](#) will be considered.

### Flexible Grade Option (CG Grade)

Students admitted to a graduate certificate program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) option for any course that is applicable to their certificate; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

The expected completion time for the graduate certificates is 8 months. The maximum completion time is 3 years.

#### Financial Assistance

##### Type

Completion Requirement

#### Additional Comments:

No financial assistance is available for the graduate certificate programs.

## Overview

### General Program Information

Applications for this interdisciplinary specialization are not current being accepted.

The University offers an interdisciplinary specialization in Energy and Environmental Systems to students registered in an existing graduate program currently offered through one of the following Faculties that are affiliated with the Institute for Sustainable Energy, Environment and Economy (ISEEE):

- School of Architecture, Planning and Landscape
- Faculty of Arts
- Haskayne School of Business
- Faculty of Law
- Faculty of Science
- Schulich School of Engineering

In cases where the student's proposed research area cannot be supported through a single academic program, and which would necessitate the combination of at least two academic areas, they may seek admission and earn the EES specialization through the Interdisciplinary Graduate Program (IGP) of the Faculty of Graduate Studies.

## Admissions

### Program Admissions Information

There are no deadlines for applying for admission into the EES Specialization; however, students will only be admitted into the EES Specialization on January 1, May 1 and September 1. Students who are already enrolled in a graduate program at the University of Calgary are able to apply to the EES Specialization.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, all applicants must meet the minimum admission requirements of the home graduate program and ISEEE. To apply for the specialization, students must complete an online EES specialization application form: <http://science.ucalgary.ca/iseee/student/apply-now>.

When applying to the EES specialization, students must have already applied to a home graduate program, faculty, or department and must already have a supervisor. Successful candidates must be approved for admission by both the home graduate program as well as by EES. Admission to a degree program does not guarantee entrance to the EES specialization. Likewise, admission to the EES specialization does not guarantee entrance to a degree program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies ([see regulations](#)) and the home graduate program's requirements, students undertaking the EES specialization must successfully complete the following:

##### EES Specialization at the Master's Level

Students in the EES specialization are required to complete four courses, which include:

- Energy and Environmental Systems 601: Introduction to Energy and Environmental Systems
- Energy and Environmental Systems 607: Tools for System Analysis

The remaining two courses must be electives approved by the EES Graduate Studies Committee. These courses are intended to bolster a student's background in energy and environmental systems and/or interdisciplinary research methods, and may be taken in other faculties, schools, or departments at the University of Calgary.

Master's students must also comply with the requirements of their home graduate program. In addition to these course requirements, students must conduct research that takes an interdisciplinary approach to a real-world problem in the area of

energy and environmental systems. Students must also actively partake in EES seminars and activities, and contribute meaningfully to the interdisciplinary culture of the specialization.

#### **EES Specialization at the Doctoral Level**

Students who have previously earned a master's degree with the EES specialization cannot enrol into the EES specialization as a PhD student. Doctoral students are required to take the same EESS core courses that are required at the master's level and two electives in the area of energy and environment. Doctoral students must also comply with requirements of their home graduate program.

#### **EES Specialization with MGIS Degree (course-based)**

Students enrolled in the Master of Geographic Information Systems degree program who wish to earn the EES specialization will need to take three of the EES courses (Energy and Environmental Systems 601, 603, and one other). Students are not required to take Geography 683, but must take the other core courses in the MGIS program (Geography 647, 633, 639, and 681). Finally, students will still be required to fulfill the 30 units (5.0 full-course equivalents) requirement of the MGIS program, and can select the remaining three courses from Geography optional courses or EES related courses. It is not recommended that students required to complete the MGIS upgrade courses undertake the EES specialization.

#### **EES Specialization with the Interdisciplinary Graduate Program (IGP)**

The course curriculum for IGP students will be determined at the IGP admission seminar. Course requirements will typically include the EES core courses, but may also include other courses to ensure adequate coverage of the relevant disciplines involved. Changes to the student's curriculum after the admission seminar will require the approval of the Supervisory Committee, IGP Director, and the Faculty of Graduate Studies.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

Requests for advanced credit must be made at the time of application. Credit will not be granted for course work taken as part of another completed degree/diploma or for courses taken to bring the admission GPA to the required level.

#### **Credit for Undergraduate Courses**

Students are allowed to take only one 500-level course for graduate credit, subject to the approval of the EES Graduate Studies Committee. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

#### **Time Limit**

Expected completion time for a master's degree is two years and the maximum completion time is four years.

Expected completion time for the PhD degree is four years and the maximum completion time is six years.

#### **Supervisory Assignment and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

Students must meet supervisory requirements of home department.

#### **Required Examinations**

Final thesis orals follow the requirements of the Faculty of Graduate Studies and the home graduate program. Students in doctoral programs must fulfill the written candidacy examination requirement of the home graduate program. All doctoral students must complete the candidacy oral examination in accordance with Faculty of Graduate Studies' regulations.

### Research Proposal Requirements

If a research proposal is required by the home department, then a copy of the proposal must be submitted to the EES Graduate Studies Committee and will be placed on file.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available on a competitive basis to all qualified full-time graduate students enrolled in the EES specialization. Students are also encouraged to seek funding opportunities through the Faculty of Graduate Studies' Open Scholarship Competition (contact the home program for application deadlines), as well as external funding agencies.

## Overview

### General Program Information

Students may choose a specialization in Finance or may elect not to have an area of specialization.

Location: Mathison Hall, Room 424

EMBA Program: 403.220.5149

Fax: 403.282.0095

Email address:

EMBA Program: <mailto:emba@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs/emba>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/management-executive-master-business-administration-course-based>.

In addition to the Faculty of Graduate Studies **admission** requirements for Admission, the program requires:

a) A four-year baccalaureate degree with a GPA of at least 3.00 on a four-point scale.

- *For applicants with a GPA below 3.0: An additional requirement of a score of 500 or higher on the GMAT or completion of the GMAC Executive Assessment with a minimum score of 140.\**

OR

- *Applicants without a four-year baccalaureate degree may be admissible with a combination of over 10 years of professional work experience and an additional requirement of a score of 500 or higher on the GMAT or 140 on the GMAC Executive Assessment.\**

*\*The final admission decision rests with the Dean of the Faculty of Graduate Studies. See **Qualifications** (Exceptional Circumstances).*

b) A current résumé.

c) A 250-word response to each of two questions provided as part of the application process.

- d) For applicants required to prove proficiency in English, a minimum TOEFL score of 97 with no section less than 20 (Internet-based test), or an IELTS score of 7.0 with no section less than 6.0.
- e) The equivalent of at least seven years of work experience, a number of years of which must have carried management or professional responsibility.
- f) Two reference letters. References listed on application are emailed a link.
- g) Applicants to the EMBA must be eligible to travel internationally.
- h) Applicants may be required to participate in an interview.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the MBA program with an online non-refundable deposit:

Executive MBA: \$3,000

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the program requires:

The delivery format of the program is different from the Haskayne MBA program and requires more integrative types of sessions and activities. However, the program requires many of the same courses as are required in the Haskayne MBA program. The Executive MBA has 42 units of required courses with 18 units of additional courses for a total of 60 units.

In general, students in this program are expected to follow a general curriculum rather than electing an area-specific specialization. However, there is the opportunity to elect a specialization in Finance.

Required Courses:

**Complete ALL of the following Courses:**

- ACCT601 - Introductory Financial Accounting  
**AND** ACCT603 - Management Accounting  
**AND** BTMA601 - Business Technology Management  
**AND** ENTI601 - Entrepreneurial Thinking  
**AND** FNCE601 - Managerial Finance  
**AND** MGST611 - Managerial Economics  
**AND** MGST613 - Managerial Decision Modeling  
**AND** MKTG601 - Marketing Management  
**AND** OPMA601 - Operations Management  
**AND** OBHR601 - Organizational Behaviour  
**AND** OBHR621 - Advanced Leadership  
**AND** SGMA601 - Strategic Management I  
**AND** SGMA603 - Global Environment of Business
- MGST615 - Strategic Business Analysis  
**OR** ENTI623 - Creative Destruction Lab - Rockies

#### Finance Specialization

Students taking the Finance specialization will complete 12 units in the area of Finance: [FNCE611 Adv Topics in Financial Admin](#) (3 units) plus 9 units of 600-level Finance courses.

## Additional Comments:

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Flexible Grade Option (CG Grade)

Students admitted to the MBA (course-based) program, Executive MBA program or Executive MBA Specializing in Global Energy program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

Participants enter the program as a cohort and are expected to complete the program requirements at the same pace, typically over the same 20-month time frame. Maximum time limit: six years.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

### Program Information

**Program Office:** Haskayne School of Business, Undergraduate Student Services, Mathison Hall 206

**Website:** [haskayne.ucalgary.ca/embedded-certificate-in-entrepreneurial-thinking](https://haskayne.ucalgary.ca/embedded-certificate-in-entrepreneurial-thinking)

**Academic Co-ordinator:** Chad Saunders

**Email:** [saunderw@ucalgary.ca](mailto:saunderw@ucalgary.ca)

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the certificate program through their **Student Centre**. Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate.

Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

Undergraduate students are considered for admission to the Embedded Certificate in Entrepreneurial Thinking once they have completed 15 units.

## Program Details

### Simple Requisites

#### Completion Requirement

##### Type

Completion Requirement

Completion Requirement

**Complete ALL of the following Requirement Sets:**

- Embedded Certificate Completion Requirement

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

a) Core Courses (6 units)

**Earn at least 6 credits from the following:**

- Entrepreneurship and Innovation 201 (non-business students)
- Entrepreneurship and Innovation 317 (business students)
- Entrepreneurship and Innovation 529

Note: non-business students may substitute an approved entrepreneurial project in their major field's capstone course for **Entrepreneurship and Innovation 529**

b) Electives (12 units)

An additional 12 units from the **Field of Entrepreneurial Thinking**, of which a minimum of 6 units must be at the 400 level or above, and a minimum of 6 units must be from the list flagged as entrepreneurial focused.

**Earn at least 12 credits from the following:**

- Field of Entrepreneurial Thinking

**Additional Comments:**

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate application for admission to the other program. The respective Combined Program Committee will review each application.

Please note that receiving admission to both individual programs does not guarantee admission to the combined program.

For MBA admission requirements, see [Master of](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

A student admitted to the combined JD/MBA program spends the first year doing core studies in one program and the second year doing core studies in the other program. The remaining years in the program combine Law and Business courses in a way that will allow the achievement of both degrees in four rather than five years. Course requirements include:

a) MBA courses (45 units):

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses

plus:

- one elective course (3 units) in the student's area of interest.

b) Law courses (83 units):

**Complete ALL of the following Requirement Sets:**

- JD/MBA Law Courses

plus:

- a minimum of eight 3-unit electives.

#### Additional Comments:

Attendance at an orientation session is mandatory for all incoming students in all MBA program options.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be

given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to a combined MBA program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

MBA: six years

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

## Program Information

**Program Office:** Haskayne School of Business, Undergraduate Student Services, Mathison Hall 206

**Website:** [haskayne.ucalgary.ca/ccal/student-leadership-programs/embedded-certificate-in-leadership-studies](https://haskayne.ucalgary.ca/ccal/student-leadership-programs/embedded-certificate-in-leadership-studies)

**Email:** [leadcertificate@ucalgary.ca](mailto:leadcertificate@ucalgary.ca)

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the certificate program through their **Student Centre**. Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate. Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

Undergraduate students are considered for admission to the Embedded Certificate in Leadership Studies once they have completed 15 units.

## Program Details

### Simple Requisites

#### Completion Requirement

##### Type

Completion Requirement

Completion Requirement

**Complete ALL of the following Requirement Sets:**

- Embedded Certificate Completion Requirement

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

##### Core courses

Undergraduate students must successfully complete a minimum of 18 units from the Field of Leadership Studies as follows, with a maximum of 12 units from any one Faculty.

**Earn at least 6 credits from the following:**

- Leadership Studies 401 (non-business students)
- Management Studies 453 (business students)
- AND Leadership Studies 501

Note: Kinesiology 311 ([KNES311 Leadership Foundations](#)) and 411 ([KNES411 Advanced Leadership Practice](#)) may be substituted for Leadership Studies 401 and 501 respectively.

##### Electives

An additional 12 units from the Field of Leadership Studies, of which a minimum of 3 units must be at the 400 level or above.

**Earn at least 12 credits from the following:**

- Field of Leadership Studies

**Additional Comments:**

## Overview

### General Program Information

Web page URL: <https://haskayne.ucalgary.ca/graduate-certificate-in-management-analytics>

## Admissions

### Program Admissions Information

In addition to the Faculty of Graduate Studies [admission](#) requirements, all applicants must meet the following requirement:

- A Master of Business Administration or Master of Management or equivalent Graduate degree from a recognized/accredited post-secondary institution.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into a Graduate Certificate program with an online non-refundable deposit of \$500.

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business requires:

The certificate requires 12 units of coursework consisting of two core and two elective courses as listed below.

**Complete ALL of the following Courses:**

- BIMA612 - Data Analytics I  
**AND** BIMA620 - Predictive Analytics in Business

Two from the following elective courses:

**Complete at least 2 of the following courses:**

- BIMA621 - Marketing Analytics  
**OR** BIMA622 - Prescriptive Analytics in Business  
**OR** BIMA623 - Supply Chain Analytics  
**OR** BIMA624 - Analytics of International Business Environment  
**OR** BIMA625 - FinTech

**Additional Comments:**

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

No [Advanced Credit](#) will be considered.

### Flexible Grade Option (CG Grade)

Students admitted to a graduate certificate program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) option for any course that is applicable to their certificate; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

The expected completion time for the graduate certificates is 8 months. The maximum completion time is 3 years.

#### Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

No financial assistance is available for the graduate certificate programs.

## Overview

### General Program Information

Students can complete the Haskayne MBA through full-time study either through the daytime or the evening.

### MBA Specializations:

- Business Intelligence and Data Analytics
- Entrepreneurship and Innovation
- Finance
- Global Energy Management and Sustainable Development
- Management Analytics
- Marketing
- Project Management
- Real Estate Studies

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

In addition to the Faculty of Graduate Studies **admission** requirements for Admission, the program requires:

- a) A current résumé.
- b) A 250-word response to each of two questions provided as part of the application process.
- c) For applicants required to prove present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20 (Internet-based test), or an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum overall grade of "A-".
- d) The Graduate Management Admission Test (GMAT) is only required for applicants with a degree from an institution outside of Canada or the United States with a recommended minimum score of 550 or an equivalent Graduate Record Examination (GRE) score.

Applicants with a degree from an institution in Canada or the United States with a grade point average (GPA) of at least 3.0 on a four-point scale are exempt from submitting a GMAT score. An applicant who has completed a bachelor's degree from an institution in Canada or the United States with a GPA from 2.50 to 2.99, and chooses to submit a GMAT score, may be admitted to an MBA course-based program as a regular student on the basis of the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150$ .

*\*Consult the Haskayne School of Business about the Graduate Management Admission Test.*

e) Two reference letters.

f) For the course-based Day and Evening MBA program only, the equivalent of at least 2 years of appropriate work experience.

g) Applicants may be required to participate in an interview.

## Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the MBA program with an online non-refundable deposit:

Daytime MBA: \$3,000

Evening MBA: \$3,000

Accelerated MBA: \$3,000

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the requirements of the Faculty of Graduate Studies, the Haskayne School of Business requires:

The MBA degree normally consists of 60 units. Students may be granted exemption from required courses based upon prior academic preparation and with the approval of the Graduate Director (MBA Program). Students must complete a minimum of 45 units, of which a maximum of 15 units may be transfer credit from another recognized graduate program, for the MBA degree.

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses

#### Specializations

Students must complete 18 units of additional courses beyond the required courses. Within these 18 units, students may select an area of specialization normally consisting of 12 units. Specialization requirements are as follows:

**Earn at least 12 credits from the following:**

- MBA, Business Intelligence and Data Analytics Specialization
- MBA, Entrepreneurship and Innovation
- MBA, Finance
- MBA, Global Energy Management and Sustainable Development
- MBA, Management Analytics
- MBA, Marketing
- MBA, Project Management
- MBA, Real Estate Studies

Students who elect not to choose an area of specialization may choose instead from various graduate courses offered by the Haskayne School of Business. Subject to the approval of the Graduate Director (MBA Program) and the Faculty of Graduate Studies, graduate courses offered at the University of Calgary outside the Haskayne School of Business may also be taken.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the MBA (course-based) program, Executive MBA program or Executive MBA Specializing in Global Energy program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

The day MBA option normally takes 20 months to complete (from first registration), while the evening option normally takes three years. Maximum time limit: six years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the Awards and Financial Assistance section of this Calendar.

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Scurfield Hall, Room 302

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

# UCalgary

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate application for admission to the other program. The respective Combined Program Committee will review each application. Please note that receiving admission to both individual programs does not guarantee admission to the combined program. For MBA admission requirements, see [Master of](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

Course requirements include:

- a) MBA courses (54 units); and
- b) MBT courses (37 units)

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses
- MBT Required Courses

plus:

- four elective courses (3 units each) in the student's area of interest.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to a combined MBA program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

MBA: six years

#### Financial Assistance

##### Type

Completion Requirement

## Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

Master of Nursing/Master of Business Administration (MN/MBA) is a combined program offered with the Haskayne School of Business.

**\*Program is suspended and is not currently accepting applications.**

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website.

For MN deadlines, see <http://www.ucalgary.ca/future-students/graduate/explore-programs/nursing-master-nursing-course-based>.

A separate application to the MBA program is required. For MBA deadlines, see <https://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Applicants to the combined MN/MBA program must be admitted to the MN program, and make a separate application for admission to the MBA program. Students must meet the requirements of the MN and MBA programs. The respective Combined Program Committee will review each application. Normally, only a full-time student in the Master of Nursing program may take a combined program. Please consult with the Faculty of Nursing Graduate Programs Office for more information.

For MBA admission requirements, see [Master of](#).

### MN Admission Requirements

In addition to the Faculty of Graduate Studies [admission](#) requirements, the Faculty of Nursing requires that an applicant must:

- a) Be a Registered Nurse or a Registered Psychiatric Nurse holding a baccalaureate degree, normally in nursing.
- b) Registered Nurses must be eligible for active nursing registration in Alberta (registrants in the program must provide proof of active CARNA registration or equivalent each year); Registered Psychiatric Nurses are expected to provide proof of active registration with the College of Registered Psychiatric Nurses of Alberta (CRPNA) or equivalent each year.
- c) Have completed one undergraduate course (3 units) in statistics with a grade of "C" or better.
- d) Submit two references, one from someone capable of assessing the applicant's academic and research ability, normally an academic, and one from someone who can attest to the applicant's nursing practice and expertise.
- e) For applicants required to provide proof of proficiency in English, submit a minimum TOEFL score of 97 (Internet-based test); IELTS score of 7.0; PTE score of 68; or a CAEL overall score of 70 (no less than 70 on reading and writing sections). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in writing courses.
- f) Have an interview(s) with a faculty member, if requested by the Faculty.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to the Faculty of Graduate Studies' [requirements](#), the Faculty of Nursing and Haskayne School of Business require the following:

Students admitted to the MN/MBA will focus on courses for the MN during the first year and on MBA courses in years two and three. Typically, the remaining courses required will be completed in year three. A total of 66.75 units is required.

Course requirements include:

a) MBA courses (51 units):

**Complete ALL of the following Courses:**

- ACCT601 - Introductory Financial Accounting  
**AND** ACCT603 - Management Accounting  
**AND** SGMA603 - Global Environment of Business  
**AND** BTMA601 - Business Technology Management  
**AND** ENTI601 - Entrepreneurial Thinking  
**AND** FNCE601 - Managerial Finance  
**AND** MGST611 - Managerial Economics  
**AND** MGST613 - Managerial Decision Modeling  
**AND** MGST615 - Strategic Business Analysis  
**AND** MKTG601 - Marketing Management  
**AND** OPMA601 - Operations Management  
**AND** OBHR601 - Organizational Behaviour  
**AND** OBHR621 - Advanced Leadership  
**AND** SGMA601 - Strategic Management I
- plus three elective courses (3 units each) in the student's area of interest.

b) MN courses (15 units):

**Complete ALL of the following Courses:**

- NURS611 - Theoretical Knowledge for Advanced Nursing Practice  
**AND** NURS630 - Quantitative Research and Statistics  
**AND** NURS632 - Writing Proposals for the Nursing Profession  
**AND** NURS660 - Cultivating Personal Leadership I  
**AND** NURS683 - Qualitative Designs And Analyses

### Additional Comments:

Each student is expected to complete the online seminar Academic Scholarly Writing within the first two weeks of the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Credit for Undergraduate Courses

Under special circumstances, with the consent of the Faculty, students may take undergraduate courses, normally at the senior or 500-level, for the Master of Nursing degree.

## Supervisory Assignments

No supervisor will be assigned.

## Time Limit

Expected completion time for the Master of Nursing portion is one year. Maximum completion time is two years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Scholarship application packages will be available on the Faculty of Nursing Website prior to each competition deadline. The application deadline for internal scholarships is February 1. Please note that the deadlines for external funding applications may not coincide with the February 1 deadline.

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate application for admission to the other program. The respective Combined Program Committee will review each application.

Please note that receiving admission to both individual programs does not guarantee admission to the combined program.

For MBA admission requirements, see [Master of](#).

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the School of Architecture, Planning and Landscape and the Haskayne School of Business require :

Students admitted to the MPlan/MBA will focus on courses for the MBA during the first year and on MPlan courses in years two and three. Typically, the Real Estate Studies specialization will be completed in year four. Course requirements include:

a) MBA courses (54 units):

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses

plus:

- four elective courses (12 units total) in the Real Estate Studies specialization.

b) MPlan courses (57 units of core required courses):

**Complete ALL of the following Course Sets:**

- MBA/MPlan combined -Planning courses

plus:

- three elective courses (9 units total) in the Real Estate Studies specialization approved by SAPL, Master of Planning program.

**Additional Comments:**

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to a combined MBA program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

MBA: six years

## Financial Assistance

### Type

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

The MBA/MPP program is normally restricted to full-time study. It allows students to obtain both degrees in a significantly shorter time frame than if they are taken separately.

Mathison Hall, Room 424

MBA Program: 403.220.2808

Fax: 403.220.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

School of Public Policy, Downtown Campus

906 8th Avenue SW, 5th Floor

Calgary, Alberta T2P 1H9

Program number: 403.210.7109

Fax: 403.210.6939

Email address: <mailto:mpp@ucalgary.ca>

Web page URL: <https://spp.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications for the MPP program is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Deadline for the submission of completed applications for the MBA (course-based) program is available on the Future Students

website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Students must meet the **admission** requirements for the Faculty of Graduate Studies and those for the **MBA and MPP programs**. Please consult the MBA Admissions Officer or the MPP Office for more information.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements**, the Haskayne School of Business and the School of Public Policy require:

Course requirements include:

a) MBA courses (51 units):

**Complete ALL of the following Course Sets:**

- MBA Courses (MBA/MPP combined)

plus:

- three elective courses (3 units each) in the student's area of interest.

b) MPP courses:

**Complete ALL of the following Course Sets:**

- Core MPP Courses

plus:

- A total of six units of electives. This can include **PPOL699 Topics in Public Policy** or other graduate-level coursework approved by the Graduate Program Director. The two elective courses should be related in such a way that they form a focus in an area of public policy.

### Additional Comments:

For students enrolled in the MBA/MPP, one three-unit MBA course will be counted toward the MPP core requirements set out in (b) and one three-unit MBA course will be counted toward the elective requirement set out in (b). All other requirements set out in (a)-(b) apply to students in the joint program.

Students will normally focus on courses for the MBA during the first year and on MPP courses including **PPOL620 Capstone Preparation** and **PPOL623 Capstone Project** (capstone) in year two. Typically, the remaining courses will be completed in the first term of year three. Please consult the MBA or the MPP Office for more information.

### Additional Program Information

#### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma. If graduate-level courses are taken as post-BA courses and not used as credit towards another degree, the School may allow the student to claim up to 6 units at our graduate level towards the MPP requirements should the student be admitted into the MPP program.

## Flexible Grade Option (CG Grade)

Students admitted to the Master of Public Policy program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will affect students' ability for internal awards.

## Credit for Undergraduate Courses

No credit will be given for courses taken below the 600-level, except in special cases.

### Time Limit

Maximum completion time for the MPP is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All MPP students in the program will be guided by faculty holding appointments to the School.

### Required Examinations

No additional examinations outside of the courses are required.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

### Specializations:

- Accounting
- Business Technology Management
- Entrepreneurship and Innovation
- Environmental Management/Sustainable Development
- Finance
- Marketing
- Organizational Behaviour and Human Resources
- Operations and Supply Chain Management
- Risk Management and Insurance
- Strategy and Global Management

The program requires full-time attendance.

Location: Scurfield Hall, Room 427

Phone: 403.220.6073

Fax: 403.282.0095

Email address: <mailto:phdrequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/doctoral-programs/phd>

## Admissions

### Program Admissions Information

See the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/management-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies requirements for **Admission**, the Haskayne School of Business requires:

a) An MBA degree or equivalent from a recognized institution with a recommended minimum admission grade point average of 3.50 on a four-point scale. Students with an undergraduate or master's degree in an area other than business may be required to complete a qualifying period to gain a general business background before beginning the normal doctoral course requirements.

It is possible to enter the PhD program without an MBA or other master's degree. Consult the Director of the PhD Program for further information.

b) Completion of the Graduate Management Admission Test (GMAT\*) with a recommended minimum score of 650, with high scores on both verbal and quantitative subcomponents. (Many successful applicants have earned scores of 700 and above). As an alternative to a GMAT score, results on the Graduate Record Exam (GRE) will be considered. Overall GRE test score in the 85th percentile is the recommended minimum.

c) For those students required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20, an IELTS score of 7.0 with no section less than 6.0, or a PTE score of 68.

d) Current CV.

e) Two reference letters.

f) A personal statement outlining objectives, intent and commitment to a research program.

g) Availability of a research-active supervisor and resources for the area in which the student wishes to study.

Work experience in business or public organizations will be considered.

*\*Consult the Haskayne School of Business about the Graduate Management Admission Test.*

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies **requirements**, the program requires:

The program consists of a minimum of 36 units. Two of these are core courses required of all students. In addition, students choose at least five courses in their chosen area(s) of study and five research methods courses.

a) Two core courses – MGST794 Theory Development and MGST795 Research Development. Students should take Management Studies 795 during the Spring/Summer Sessions between their first and second years.

b) Courses in the area(s) of study: Students will take a minimum of 15 units in their area(s) of study. Students can choose a major area and a minor area. The major area must be chosen from those offered within the Haskayne School of Business, which represents the student's specialization:

- Accounting
- Business Technology Management
- Entrepreneurship and Innovation
- Environmental Management/Sustainable Development
- Finance
- Marketing
- Operations and Supply Chain Management

- Organizational Behaviour and Human Resources
- Risk Management and Insurance
- Strategy and Global Management

Students will be required to take a minimum of 9 units from the major area.

c) Minor Area – The minor area of study must complement the major area. It may be chosen from those areas offered within the Haskayne School of Business or from those offered from other faculties. Students will be required to take a minimum of 3 units in their minor area.

d) Research Methods and Statistics: Students are required to choose either Stream A or Stream B and to take at least two courses in their selected Stream from the following lists:

Stream A: ECON615 Econometrics/495; ECON715 Advanced Econometrics II/497; plus one other course option (e.g., OPMA799.03 Operational Research Issues)

Stream B: MGST773 Multivariate Analysis in MGMT; MGST783 AdvResearchMethodology&Method; plus a qualitative research methods course (e.g., SGMA796 Qlt'y Rsrc'h Strg'y Orgnzns)

Nine units of additional courses in research methods and statistics (a total of fifteen units) are required, offered within the Haskayne School of Business or by other faculties.

The typical student will take 36 units over the first 20 months of the program. The number of courses may vary according to the student's particular program and background. Students work closely with their research-active supervisors who help guide them to the appropriate courses within and outside the School. There is also a requirement to complete courses/workshops at the Teaching and Learning Centre to develop necessary teaching skills.

As part of the program, all doctoral students are required to teach two courses as instructor (after passing Field of Study Exams). Courses will be assigned in consultation with Supervisor and Area Chair.

Attendance at an orientation session is mandatory for all incoming doctoral students. Regular attendance at seminars offered by the PhD program, their disciplinary Areas, and the School is also required of all doctoral students.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

Course requirements for doctoral students will be based on the student's background and program needs. Credit for previous courses will be provided as appropriate.

#### Flexible Grade Option (CG Grade)

The PhD program will allow students to pursue the Flexible Grade Option (CG Grade) with the exception of the following courses:

- Economics 615
- Economics 715
- Management Studies 773
- Management Studies 783
- Management Studies 794 (typically offered in the Fall Term)
- Management Studies 795

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Doctoral students are required to have secured a permanent supervisor within the first twelve months of their program. A supervisory committee reflective of the student's research interests is required within three months after the permanent supervisor has been approved.

### Research Proposal Requirements

Students must complete a written thesis proposal, which will be evaluated by the supervisory committee in a meeting. See [HSB Candidacy Requirements](#) for further information about the proposal requirements and approval process.

Students whose research involves human subjects must receive approval from the Haskayne School of Business and from the University of Calgary Conjoint Faculties Research Ethics Board before beginning data collection.

### Required Examinations

#### Candidacy

Doctoral students must pass oral and written Field of Study examinations. For complete details of the examination format and other candidacy requirements, see [HSB Candidacy Requirements](#).

#### Thesis Examination

Doctoral students will complete an oral thesis examination at the end of their programs. The student presentation portion of the thesis examination is public. In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

General Program Information

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The Management and Society program is designed to expose students to the various aspects of the role of management in our institutions and society. It is intended to prepare graduates in other disciplines for practicing their skills in a business environment, but is not equivalent to the level of knowledge gained in the Bachelor of Commerce.

## Contact Information

**Location:** Mathison Hall 206

**Email address:** [undergraduate@haskayne.ucalgary.ca](mailto:undergraduate@haskayne.ucalgary.ca)

**Website:** [haskayne.ucalgary.ca/future-students/bcomm](http://haskayne.ucalgary.ca/future-students/bcomm)

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the Minor program through their [Student Centre](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

Completion Requirement

#### Specified Courses - Minor Program

In order to complete the requirements for a Minor in Management and Society, students must take 30 units as outlined below, with a maximum of 15 units transferred from an institution outside of the University of Calgary. A maximum of 6 units with a "D" or "D+" grade in a non-prerequisite course is permitted.

#### Earn at least 9 credits from the following:

- Entrepreneurship and Innovation 201\*
- Accounting 301\*
- One of: Finance 341\*, 343\*, Operations Management 301\*

*\*Not available for credit in the Bachelor of Commerce program.*

#### Required Options - Minor Program

#### Earn at least 21 credits from the following:

- Accounting 355
- Accounting 357
- Accounting 359
- Business Technology Management 321\*
- Entrepreneurship and Innovation 333
- Entrepreneurship and Innovation 359
- Entrepreneurship and Innovation 381\*
- Entrepreneurship and Innovation 401
- Entrepreneurship and Innovation 403
- Entrepreneurship and Innovation 405
- Entrepreneurship and Innovation 407
- Entrepreneurship and Innovation 411
- Entrepreneurship and Innovation 413
- Entrepreneurship and Innovation 415
- Entrepreneurship and Innovation 529
- Entrepreneurship and Innovation 531

- Entrepreneurship and Innovation 559
- Finance 341\*
- Finance 343\*
- Finance 469
- Leadership Studies 401\*
- Marketing 341\*
- Operations Management 301\*
- Organizational Behaviour and Human Resources 321\*
- Organizational Behaviour and Human Resources 517
- Real Estate Studies 359
- Strategy and Global Management 395
- Strategy and Global Management 401\*
- Strategy and Global Management 533
- Strategy and Global Management 555
- Tourism Management 409\*

Note: Maximum of three Entrepreneurship and Innovation courses beyond **Entrepreneurship and Innovation 201**.

For students whose home faculty is not the Haskayne School of Business, a maximum of 30 units from the Haskayne School of Business may be taken at the University of Calgary.

*\*Not available for credit in the Bachelor of Commerce program.*

### Additional Comments:

## Overview

### General Program Information

The Haskayne School of Business offers a combined dual degree program with the Technical University of Munich (TUM). This dual degree results in two graduate degrees, the Master of Management from the University of Calgary and the Master of Science from TUM.

Students apply to the dual degree program through the University of Calgary but must meet admission requirements of both institutions.

The MMgmt program is delivered on-campus in an intensive format with no scheduled break. Only full-time registration is available.

Location: Scurfield Hall, Room 302

Phone: 403.220.8872

Email address: <mailto:mmgmt@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/programs/mmgmt>

## Admissions

### Program Admissions Information

See the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-management-course-based>.

In addition to meeting Faculty of Graduate Studies requirements for admission, the Master of Management program requires the following:

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- a) Completion of a four-year non-business bachelor's degree.
  - b) A minimum admission grade point average (GPA) of 3.00 calculated over the last 60 units of university-level courses at the time of application (Graduate Management Admission Test or GMAT not required).
  - c) Students with an admission GPA between 2.70 and 3.00 may be considered for admission based on a combination of admission GPA and an acceptable GMAT score. Admission is based on the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150^*$ .
- \*Consult the Haskayne School of Business about the GMAT.
- d) Typically, a maximum of three years professional work experience since the completion of an undergraduate degree.
  - e) A current resume.
  - f) A 250-word response to each of two questions as part of the application process.
  - g) Participation in an interview (upon request).
  - h) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20, an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum overall grade of "A-".

It is recommended that applicants complete an undergraduate course in economics, statistics, mathematics or psychology. Admitted students will be provided with online preparatory course work through the Haskayne School of Business prior to starting specific courses in the program.

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In addition to the above, students applying to the Master of Science program as part of the dual degree at TUM must have 12 months of full-time work experience. See [website](#) for additional details.

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### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the Master of Management program with an online non-refundable deposit of \$3,000.

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business requires:

Students will complete a total of 33 units, which include 30 units from 18 core courses required of all students and 3 units from two elective courses.

a) Eighteen core courses (total of 30 units):

**Earn at least 30 credits from the following:**

- MMgmt Core Courses

b) Two of four elective courses (total of 3 units):

**Earn at least 3 credits from the following:**

- Untitled Course set

#### Additional Comments:

Program requirements for the Master of Science degree as part of the dual degree program at TUM can be found [here](#).

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

No advanced credit will be considered.

#### Flexible Grade Option (CG Grade)

Students admitted to the Master of Management program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### Time Limit

Students must be registered full-time and are expected to complete the Master of Management at the University of Calgary in 10 months. Normally, the maximum completion time is two years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

## Overview

### General Program Information

Students can complete the Haskayne MBA through full-time study either through the daytime or the evening.

### MBA Specializations:

- Business Intelligence and Data Analytics
- Entrepreneurship and Innovation
- Finance
- Global Energy Management and Sustainable Development
- Management Analytics
- Marketing
- Project Management
- Real Estate Studies

Location: Mathison Hall, Room 424

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

In addition to the Faculty of Graduate Studies requirements for admission, the program requires:

- a) A current résumé.
- b) A 250-word response to each of two questions provided as part of the application process.
- c) For applicants required to prove present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20 (Internet-based test), or an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the Academic Communication Certificate with a minimum overall grade of "A-".
- d) The Graduate Management Admission Test (GMAT) is only required for applicants with a degree (from an institution outside of Canada or the United States) with a recommended minimum score of 550 or an equivalent Graduate Record Examination (GRE) score.

Applicants with a degree from an institution in Canada or the United States with a grade point average (GPA) of at least 3.0 on a four-point scale are exempt from submitting a GMAT score. An applicant who has completed a bachelor's degree from an institution in Canada or the United States with a GPA from 2.50 to 2.99, and chooses to submit a GMAT score, may be admitted to an MBA course-based program as a regular student on the basis of the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150$ .

*\*Consult the Haskayne School of Business about the Graduate Management Admission Test.*

- e) Two reference letters.
- f) For the course-based Day and Evening MBA program only, the equivalent of at least 2 years of appropriate work experience.
- g) Applicants may be required to participate in an interview.

### Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the MBA program with an online non-refundable deposit:

Daytime MBA: \$3,000

Evening MBA: \$3,000

Accelerated MBA: \$3,000

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the requirements of the Faculty of Graduate Studies, the Haskayne School of Business requires:

The MBA degree normally consists of 60 units. Students may be granted exemption from required courses based upon prior academic preparation and with the approval of the Graduate Director (MBA Program). Students must complete a minimum of 45 units, of which a maximum of 15 units may be transfer credit from another recognized graduate program, for the MBA

degree.

Students who have completed a recognized/accredited Master of Management degree within the last 10 years may be granted course exemption from 27 units and required to complete a minimum of 33 units for the MBA degree, of which 3 units may be transfer credit from another recognized graduate program.

For students approved for a Master of Management exemption, requirements normally will be:

**Complete ALL of the following Courses:**

- ACCT601 - Introductory Financial Accounting  
**AND** ACCT603 - Management Accounting  
**AND** MGST611 - Managerial Economics  
**AND** MGST613 - Managerial Decision Modeling  
**AND** OBHR621 - Advanced Leadership  
**AND** SGMA601 - Strategic Management I  
**AND** SGMA603 - Global Environment of Business

plus:

- 12 units of elective courses.

### Specializations

Students must complete 18 units of additional courses beyond the required courses. Within these 18 units, students may select an area of specialization normally consisting of 12 units. Specialization requirements are as follows:

**Complete ANY of the following Requirement Sets:**

- MBA, Business Intelligence and Data Analytics Specialization
- MBA, Entrepreneurship and Innovation
- MBA, Finance
- MBA, Global Energy Management and Sustainable Development
- MBA, Management Analytics
- MBA, Marketing
- MBA, Project Management
- MBA, Real Estate Studies

Students who elect not to choose an area of specialization may choose instead from various graduate courses offered by the Haskayne School of Business. Subject to the approval of the Graduate Director (MBA Program) and the Faculty of Graduate Studies, graduate courses offered at the University of Calgary outside the Haskayne School of Business may also be taken.

### Additional Comments:

### Additional Program Information

Type

Completion Requirement

Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the MBA (course-based) program, Executive MBA program or Executive MBA Specializing in Global Energy program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

The day MBA option normally takes 20 months to complete (from first registration), while the evening option normally takes three years. Maximum time limit: six years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

This program is delivered on-campus in an intensive format with no scheduled break. Only full-time registration is available.

Students may choose to combine the Master of Management degree with the Master of Science degree ([Dual Degree](#)) offered through the [Technical University of Munich](#) (TUM).

Location: Mathison Hall, Room 424

Phone: 403.220.8872

Email address: <mailto:mmgmt@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/programs/mmgmt>

## Admissions

### Program Admissions Information

See the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-management-course-based>.

In addition to meeting Faculty of Graduate Studies requirements for [admission](#), the Master of Management program requires the following:

- a) Completion of a four-year non-business bachelor's degree.
  - b) A minimum admission grade point average (GPA) of 3.00 calculated over the last 60 units of university-level courses at the time of application (Graduate Management Admission Test or GMAT not required).
  - c) Students with an admission GPA between 2.70 and 3.00 may be considered for admission based on a combination of admission GPA and an acceptable GMAT score. Admission is based on the following equivalent achievement score:  $[(\text{GPA} \times 200) + \text{GMAT}] \geq 1150^*$ .
- \*Consult the Haskayne School of Business about the GMAT.
- d) Typically, a maximum of three years professional work experience since the completion of an undergraduate degree.
  - e) A current resume.
  - f) A 250-word response to each of two questions as part of the application process.

g) Participation in an interview (upon request).

h) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97 with no section less than 20, an IELTS score of 7.0 with no section less than 6.0 or a CAEL overall score of 70. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum overall grade of "A-".

It is recommended that applicants complete an undergraduate course in economics, statistics, mathematics or psychology. Admitted students will be provided with online preparatory course work through the Haskayne School of Business prior to starting specific courses in the program.

## Admission Deposit

Successful applicants will be required to confirm their acceptance of an offer of admission into the Master of Management program with an online non-refundable deposit of \$3,000.

The deposit will be credited toward tuition fees upon registration.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business requires:

Students will complete a total of 33 units, which include 30 units from 18 core courses required of all students and 3 units from two elective courses.

a) Eighteen core courses (total of 30 units):

**Earn at least 30 credits from the following:**

- MMgmt Core Courses

b) One of the following courses: (total of 3 units)

- [MGST670 WIL Topics Management Studies](#)
- [MGST677 Master Management Graduate Int](#)

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

No advanced credit will be considered.

## Flexible Grade Option (CG Grade)

Students admitted to the Master of Management program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Students must be registered full-time and are expected to complete the Master of Management at the University of Calgary in 10 months. Normally, the maximum completion time is two years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The MSc degree in Sustainable Energy Development (SEDV) is an interdisciplinary offering by the School of Public Policy in collaboration with the Haskayne School of Business, Schulich School of Engineering, School of Architecture, Planning, and Landscape, and the Faculty of Law. This interdisciplinary, comprehensive, and professional graduate program provides a holistic approach to energy and environmental management through a cross section of courses taught by faculty from across the university.

This is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: Downtown Campus

Program number: 403.220.2013

Email address: <mailto:sedv@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/sustainableenergy>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/sustainable-energy-development-master-science-course-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the SEDV Program requires:

- a) Letter of intent of no more than 1000 words, addressing four questions provided on the SEDV admissions [website](#). Each question must be answered in no more than 250 words.
- b) A current curriculum vitae.
- c) Two years of professional work experience after graduation.
- d) Two reference letters: one academic and one professional.

Please refer to our [website](#) for detailed instructions and templates.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), SEDV requires successful completion of 42 units consisting of the following:

33 units of core courses:

**Complete ALL of the following Courses:**

- SEDV601 - Energy Systems I  
**AND** SEDV603 - Energy Systems II  
**AND** SEDV605 - Indigenous Peoples and Sustainability in Energy Development  
**AND** SEDV613 - Energy Economics and Finance  
**AND** SEDV615 - Environmental Impact Assessment in the Energy Sector  
**AND** SEDV619 - Environmental Law in the Energy Sector  
**AND** SEDV621 - Environmental Management Tools in the Energy Sector  
**AND** SEDV623 - Strategic Environmental Planning for Energy Organizations  
**AND** SEDV631 - Life Cycle Sustainability Assessment in the Energy Sector  
**AND** SEDV633 - Energy and Climate Policy  
**AND** SEDV635 - Fundamentals of Water, Air, and Land Pollution

6 units chosen from:

**Complete ANY of the following Courses:**

- SEDV698 - Topics in Energy and the Environment I  
**AND** SEDV699 - Topics in Energy and the Environment II

3 unit capstone project:

**Complete ALL of the following Courses:**

- SEDV640 - Capstone Project I: Research Design  
**AND** SEDV641 - Capstone Project II: Proposal Development  
**AND** SEDV642 - Capstone Project III: Research Exploration and Examination

The work completed in this set of courses is considered equivalent to a Major Research Project. These courses must be taken immediately after each other. The project work must be interdisciplinary, reflecting a minimum of 3 areas of study, with energy and environment as the two anchors.

### Additional Comments:

Students will have the opportunity to participate in professional development seminars, experiential learning workshops, and field trips to local energy related sites. Attendance and participation in such activities is expected.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The SEDV Program does not grant [advanced credit](#) for courses completed prior to admission.

## Flexible Grade Option (CG Grade)

The Master of Science in Sustainable Energy Development program will allow students to pursue the **Flexible Grade Option (CG Grade)**.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

### Credit for Undergraduate Courses

The SEDV program does not grant advanced credit for undergraduate courses.

### Time Limit

The SEDV program commences annually in May, which is the only intake. As a cohort-based program, the expectation is for students to complete courses as timetabled for their cohort.

The expected completion time is 16 months for full-time studies; however, the maximum permitted time is 6 years.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

For information on graduate funding, please see **Financing - SEDV | Haskayne School of Business | University of Calgary**.

## History; Department of Department

The Department of History is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the **Faculty of Arts**. For information on graduate program regulations and requirements, refer to individual **graduate programs**. Faculty of Graduate Studies Academic Regulations can be found **here**.

For contact information or current events, refer to the **Department of History**.

## Programs

### Overview

#### General Program Information

**Program Office:** Department of History, Social Sciences Building, Room 656

**Website:** **arts.ucalgary.ca/history/future-students/undergraduate/certificate-canadian-studies**

**Email:** **histdept@ucalgary.ca**

For advising, students should consult the Department of History or a Program Advisor in the **Arts Students' Centre**.

### Introduction

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the certificate program through their **Student Centre**. Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to

discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate. Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

## Program Details

### Simple Requisites

#### Completion Requirement

##### Type

Completion Requirement

Completion Requirement

**Complete ALL of the following Requirement Sets:**

- Embedded Certificate Completion Requirement

**Additional Comments:**

#### Embedded Certificate in Canadian Studies

##### Type

Completion Requirement

Core courses:

**Earn at least 6 credits from the following:**

- HTST211 - Canada: Origins To 1867  
**AND** HTST213 - Canada Since 1867

Electives: An additional 12 units chosen from the list of electives while fulfilling:

- 6 units must be at the 300 or above
- 3 units must be at the 400 level or above
- A maximum of 3 units in courses labelled History

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Canadian Studies

Many of the courses on the electives list have prerequisites and some may be in high demand. Registration in these courses is not assured. It is the student's responsibility to ensure that prerequisites are completed.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/history](https://arts.ucalgary.ca/history)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/current-students/undergraduate/academic-advising](https://arts.ucalgary.ca/current-students/undergraduate/academic-advising).

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the **Student Centre**. The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of History

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of History while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of History

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Minor Program Requirements

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of History
- A minimum 18 units at the 300 level or above.
- A minimum 3 units must be at the 400 or 500 level.  
Note: Greek and Roman Studies courses cannot count toward a Minor in History.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/history](https://arts.ucalgary.ca/history)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of History offers instruction in a broad range of historical fields. The Programs in History provide a broad liberal arts education, with widespread application. The BA Honours in History deepens the foundation in historical studies and provides excellent preparation for graduate studies in history as well as fields such as education, law, journalism and public administration.

The Department strongly recommends that History students do not concentrate their studies in one period or thematic area. The Department encourages breadth in History and advises students to take courses about different chronological eras, in different geographic areas, and from different analytical perspectives.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA History Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

## Program Details

Simple Requisites

### Faculty of Arts Requirements

Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

**Additional Comments:**

### Courses Constituting the Field of History

Type

Completion Requirement

successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of History while

fulfilling the Program Requirements.

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of History while fulfilling the Program Requirements.

**Earn at least 42 credits from the following:**

- Courses Constituting the Field of History

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 3 credits from the following:**

- Practice of History: 3 units History 300

Major-Field - Required Options

- 6 units in Canadian History
- 6 units in History before 1850
- An additional 27 units from Courses Constituting the Field of History

**Earn at least 39 credits from the following:**

- Courses Constituting the Field of History

*Senior-Level Courses:* Inclusive of the courses used to fulfill the above requirements, 36 units from Courses Constituting the Field of History must be at the 300 level or above, of which:

- A minimum of 12 units at the 400 level
- A minimum of 6 units at the 500 level
- A minimum of 18 units at the 300 level or above

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

Programs in History cannot be taken in conjunction with programs in Ancient and Medieval History. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/history](https://arts.ucalgary.ca/history)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of History offers instruction in a broad range of historical fields. The Programs in History provide a broad liberal arts education, with widespread application. The BA Honours in History deepens the foundation in historical studies and provides excellent preparation for graduate studies in history as well as fields such as education, law, journalism and public administration.

The Department strongly recommends that History students do not concentrate their studies in one period or thematic area. The Department encourages breadth in History and advises students to take courses about different chronological eras, in different geographic areas, and from different analytical perspectives.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA History Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#).

### Admission to the Honours

The Faculty of Arts procedures for Admission to BA Honours in History established in section 3.3.2 Honours Degrees are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

In addition to having successfully completed at least 30 units of post-secondary study, students must have completed at least 3 units in History to enter the Honours program. The Honours Advisor will advise anyone who might be interested in joining the program. In addition to completing the online application in the Student Centre by the application deadline, a supplemental application must be submitted by January 15. The supplemental application can be found on the Department of History website ([arts.ucalgary.ca/history](https://arts.ucalgary.ca/history)). Students are encouraged to consult with the Honours Advisor well before the deadline to determine their eligibility.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

**Additional Comments:**

#### Courses Constituting the Field of History

##### Type

Completion Requirement

Students must successfully complete a minimum of 54 units and a maximum of 72 units in Courses Constituting the Field of History while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of History

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

##### Major-Field - Specified Courses

**Earn at least 15 credits from the following:**

- Practice of History: 3 units History 300
- Honours Seminar, Readings and Essay: 12 units History 496, 597, 598

##### Major-Field - Required Options

From the Courses Constituting the Field of History, complete:

- 6 units in Canadian History
- 6 units in History before 1850
- An additional 27 units from Courses Constituting the Field of History

**Earn at least 39 credits from the following:**

- Courses Constituting the Field of History

*Senior-Level Courses:* Inclusive of the courses used to fulfill the above requirements, students must complete 51 units from Courses Constituting the Field of History at the 300 level or above, of which:

- 12 units must be at the 400 level
- 15 units must be at the 500 level
- 24 units must be at the 300 level or above

##### Language Requirement

**6 units in a single language other than English relevant to a student's studies. The choice of language must be approved by the Honours Co-ordinator.**

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Overlapping Programs

Programs in History cannot be taken in conjunction with programs in Ancient and Medieval History. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

### General Program Information

The one-year, course-based MA program includes significant independent research and is SSHRC-eligible. It is appropriate for students who intend to proceed to doctoral studies.

This is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Students in the course-based program are expected to enrol full-time but part-time status may be considered with approval from the Graduate Program Director.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-ma-course>

In addition to the **requirements** of the Faculties of Graduate Studies and Arts, the Department requires:

- a) Normally, a four-year undergraduate program with honours or a major in History.
- b) A minimum admission grade point average of 3.40 on a four-point scale over the final 60 units of the undergraduate degree.

c) A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).

d) A statement of research interest.

e) Two reference letters.

f) A curriculum vitae.

g) The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.

See [website](#) for further application details.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) A minimum of 24 units of coursework:

- [HTST651 Research Essay I](#) as preparation for the Major Research Essay (MRE)
- [HTST653 Research Essay II](#), in which the MRE, normally around 9,000 words in length (including notes, charts, tables and appendices, but excluding bibliography), is written. The MRE must be written like a scholarly research article, and it will be marked by the student's advisor and one additional faculty member.
- [HTST690 Historiography&TheoriesOfHist](#)
- 15 units of History graduate courses over two semesters; in instances where there are no graduate courses being offered in the student's field of study, students may, with permission of the supervisor and graduate program director, take one 500-level undergraduate History course on the understanding that extra coursework will be required.

b) Normally, a demonstration of reading proficiency in a language other than English and related to the student's research interests before the MRE can be accepted. Please refer to the subsection below for further details.

#### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

#### Copyediting

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

#### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

**Flexible Grade Option (CG Grade)**

The Department of History will allow students to pursue the Flexible Grade Option (CG Grade) for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Refer to Program/Course Requirements.

**Time Limit**

Expected completion time for full-time students is 12 months, and maximum completion time is four years.

**Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department website.

**Overview**

**General Program Information**

All thesis-based students are considered full-time.

**Specializations:**

- History and Philosophy of Science (MA, thesis-based only)\*

\*This specialization is offered in co-operation with the Department of Philosophy.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

**Admissions**

Program Admissions Information

## Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-ma-thesis>

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

- a) Normally, a four-year undergraduate program with honours or a major in History.
  - b) A minimum admission grade point average of 3.40 on a four-point scale over the final 60 units of the undergraduate degree.
  - c) A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).
  - d) A statement of research interest.
  - e) Two reference letters.
  - f) A curriculum vitae.
  - g) The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.
- See [website](#) for further application details.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) A minimum of 15 units of coursework:
  - [HTST690 Historiography&TheoriesOfHist](#) (3 units); plus
  - 12 units of History graduate courses over two terms; in instances where there are no graduate courses being offered in the student's field of study, students may, with approval of the supervisor and graduate program director, take one 500-level undergraduate History course on the understanding that extra coursework will be required.

Students may choose 3 units outside of the Department (requiring approval from the supervisor and graduate program director).

Students in the History and Philosophy of Science specialization may, with approval of the supervisor and graduate program director, take Philosophy courses to fulfill course requirements for the degree.

- b) Normally, a demonstration of reading proficiency in a language other than English and related to the major field of study prior to the oral thesis defence. Please refer to the subsection below for further details.
- c) Completion and successful oral defense of an original thesis, normally around 30,000 words in length (including notes, charts, tables and appendices, but excluding bibliography).

#### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university

meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

#### **Copyediting**

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

### **Additional Program Information**

#### **Type**

Completion Requirement

#### **Additional Comments:**

### **Advanced Credit**

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### **Flexible Grade Option (CG Grade)**

The Department of History will allow students to pursue the **Flexible Grade Option (CG Grade)** for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### **Credit for Undergraduate Courses**

Students enrolled in the Master of Arts thesis program may apply for no more than one 500-level course for graduate credit, subject to the approval of the Supervisor and Graduate Program Director. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

### **Time Limit**

Expected completion time is two years, and maximum completion time is four years.

### **Supervisory Assignments and Required Examinations**

#### **Type**

Completion Requirement

#### **Additional Comments:**

### **Supervisory Assignments**

Admission to the Master of Arts (thesis-based) is dependent upon the agreement of a faculty member to supervise in an interim capacity. Upon acceptance into the program, students are assigned an interim supervisor who will normally become the permanent supervisor three months into the student's program. Supervisors must be assigned within 6 months of the first registration.

### **Thesis Examination**

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the Department requires:

Final thesis oral examinations are open.

## *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department [website](#).

## **Overview**

### **General Program Information**

All thesis-based students are considered full-time.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/history>

## **Admissions**

### **Program Admissions Information**

Deadlines for the submission of complete applications are available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/history-phd>

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

- a) Normally, a completed four-year undergraduate program with honours or a major in History and a completed Master of Arts degree or the equivalent in History or in a related discipline.
- b) A grade point average of 3.70 on a four-point scale in History at the graduate level.
- c) A detailed statement of research interest.
- d) A sample of written work (unpublished essays submitted as coursework in previous undergraduate and Master's degree programs or individual chapters of Honours, BA or Master's theses).
- e) Two reference letters.
- f) A curriculum vitae.
- g) The name of the potential supervisor must be listed in the application. The student should communicate with a prospective supervisor to confirm their interest in supervising the student's work. See [HIST Research | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#) for faculty research areas.

See [website](#) for further application details.

## **Program Details**

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) A minimum of 12 units of coursework at the graduate level, including courses in the primary and secondary areas. These courses include:

- 3 units in the primary area as a [HTST791 Conf Course Special Top \(Adv\)](#) reading course;
- 3 units in the secondary area as a [HTST791 Conf Course Special Top \(Adv\)](#) reading course;
- 6 additional units including [HTST690 Historiography&TheoriesOfHist](#) (3 units), if not completed in a student's MA program. Among these, the student may also choose 3 units outside the Department (requiring the supervisor's and graduate program director's approval).

b) Normally, a demonstration of reading proficiency in a language other than English and relevant to the student's research prior to the candidacy examination. Please refer to the subsection below for further details.

c) Written and oral candidacy examinations in primary and secondary areas.

d) Submission and successful defense of an original thesis, normally 80,000 - 100,000 words in length (including notes, charts, tables and appendices, but excluding bibliography).

#### Language Requirements

Both the master's and the doctoral degrees normally require a demonstration of reading proficiency in a language other than English and related to the major field of study or research area. This requirement can be met in one of the following ways:

1. Passing the Department language exam, which is set twice a year and tests the ability to understand the general meaning of an academic text in a language other than English with the help of dictionaries (English and language which is examined). It can be repeated if failed.
2. Documentation establishing reading proficiency in a language other than English. It is the responsibility of the student to supply evidence of reading proficiency or evidence that course work in a language other than English at another university meets the requirement. Students not meeting the requirement upon entry should consult with the graduate program director before classes begin.

Students may, with permission of the supervisor and the graduate program director, replace reading proficiency with oral proficiency.

#### Copyediting

The graduate program in the Department of History does not permit the use of third-party editors in the preparation of papers and theses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### Flexible Grade Option (CG Grade)

The Department of History will allow students to pursue the **Flexible Grade Option (CG Grade)** for courses offered outside of the program.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is four years, and maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Admission to the PhD is dependent upon the agreement of a faculty member to supervise in an interim capacity. Upon acceptance into the program, students are assigned an interim supervisor who will normally become the permanent supervisor three months into the student's program. Supervisors must be assigned within 6 months of the first registration.

The supervisor establishes a doctoral supervisory committee in consultation with the student. The Supervisory Committee consists of the primary area supervisor and a secondary area specialist with the third member being a faculty member, normally outside the department, whose area of expertise is in the field of study for the student. The supervisory committee must be selected within three months of the permanent supervisor's appointment (no later than March of the first year of a program).

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for **Candidacy** and **Thesis Examinations**, the Department requires:

### Candidacy

Doctoral students must pass oral and written candidacy examinations in their primary and secondary areas. For complete details of candidacy requirements and the examination format, see <https://arts.ucalgary.ca/history/future-students/graduate/phd-candidacy-requirements>.

### Thesis Examinations

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their online applications to the Department by the deadline posted on the department [website](#).

## Overview

### General Program Information

**Program Office:** Department of History, Social Sciences Building, Room 656

**Website:** [HIST Future Undergraduate Programs Latin American Studies | DEPARTMENT OF HISTORY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#)

**Email:** [histdept@ucalgary.ca](mailto:histdept@ucalgary.ca)

For advising, students should consult the Department of History or a Program Advisor in the [Arts Students' Centre](#).

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the certificate program through their [Student Centre](#). Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate. Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

## Program Details

### Simple Requisites

#### Completion Requirement

##### Type

Completion Requirement

Completion Requirement

**Complete ALL of the following Requirement Sets:**

- Embedded Certificate Completion Requirement

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Core Courses

**Earn at least 6 credits from the following:**

- Core Courses: 6 units Latin American Studies 211 and 311

Electives

**Complete a total of 12 units:**

- 3 units in the Field of Latin American Studies at the 400 level
- 9 units chosen from the Field of Latin American Studies in a minimum of 2 subject areas

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of Latin American Studies (EMC)

**Additional Comments:**

# Mathematics & Statistics; Department of Department

The Department of Mathematics and Statistics is part of the Faculty of Science.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Science](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Mathematics and Statistics](#).

## Programs

### Overview

General Program Information

Department Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

Simple Requisites

### Faculty of Science Minor Program Regulations

Type

Completion Requirement

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

Additional Comments:

### Courses Constituting the Field of Actuarial Science

Type

Completion Requirement

Courses Constituting the Field of Actuarial Science

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Actuarial Science

Additional Comments:

### Required Courses - Minor Program

#### Type

Completion Requirement

#### Required Courses - Minor Program

**Note:** The Minor in Actuarial Science is not available to students majoring in Mathematics or General Mathematics. Students outside the department can complete only one minor offered by the Department of Mathematics and Statistics.

**Earn at least 24 credits from the following:**

- 9 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277; Mathematics 211
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 6 units - Actuarial Science 325 and 327

#### Required Options - Minor Program

- 6 units - Courses from the Field of Actuarial Science at the 400 level or higher

**Earn at least 6 credits from the following:**

- Courses Constituting the Field of Actuarial Science

**Additional Comments:**

## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

#### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

**Additional Comments:**

## Department Regulations

### Type

Completion Requirement

**Additional Comments:**

### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Courses Constituting the Field of Actuarial Sciences

### Type

Completion Requirement

### Courses Constituting the Field of Actuarial Sciences

Students must successfully complete a minimum of 57 units to a maximum of 66 units in Courses Constituting the Field of Actuarial Science while fulfilling the Program Requirements.

**Earn at least 57 credits from the following:**

- Courses Constituting the Field of Actuarial Science

Courses in Risk Management and Insurance are not included in the field, but are relevant and are recommended electives for Actuarial Science students. Interested students should consult the Department or the Chair in Risk Management and Insurance in the Haskayne School of Business.

Actuarial Science courses, along with Statistics 407, 421, 429 and 505, cover significant portions of the course of study for the early Casualty Actuarial Society Examinations and Society of Actuaries Examinations/Courses. Students are advised to select additional courses in Economics, Finance, Risk Management and Insurance, and Statistics as electives in order to complete the course of study for these professional examinations, and also to prepare for the advanced Casualty Actuarial Society Examinations/Society of Actuaries Examinations/Courses. Students should speak with a Departmental advisor for guidance.

Students who wish to pursue possible credit towards the Society of Actuaries VEE Accounting and Finance requirements are recommended to take Accounting 217 and Finance 317, respectively. Such students must be in good standing and in the third or fourth year of the Actuarial Science program. Certain other prerequisites for these courses may be waived, but Economics 201 and 203 are required for Finance 317. Students should contact an advisor in the Haskayne School of Business for registration approval. (Note, although sufficiently high grades in Accounting 217 and Finance 317 should satisfy the Society of Actuaries' requirements, ultimately the Society of Actuaries will make this determination.

**Additional Comments:**

## Program Requirements

## Type

Completion Requirement

### Required Courses - Major Program

**Earn at least 57 credits from the following:**

- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 3 units - Mathematics 367
- 3 units - Computer Science 217 or 231 or Data Science 211
- 12 units - Actuarial Science 325, 327, 427 and 527
- 21 units - Selected from: Courses labelled Actuarial Science or Statistics 407, 429, 505, 533, 543

### Required Options - Major Program

**Earn at least 63 credits from the following:**

- 3 units from the Field of Actuarial Science at the 300 level or higher
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 33 units - Non-Major Field Requirement: Options outside of the Field of Actuarial Science
- 9 units - Options

## Additional Comments:

## Program Sequence

### Type

Completion Requirement

### Additional Comments:

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs

- Double Major Combination with Mathematics and Actuarial Science
- Double Major and Major/Minor Combinations in Mathematics and Statistics
- Embedded Certificates

Additional Comments:

## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

##### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Courses Constituting the Field of Actuarial Science

### Type

Completion Requirement

#### Courses Constituting the Field of Actuarial Science

Students must successfully complete a minimum of 60 units to a maximum of 78 units in Courses Constituting the Field of Actuarial Science while fulfilling the following requirements:

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Actuarial Science

Courses in Risk Management and Insurance are not included in the field, but are relevant and are recommended electives for Actuarial Science students. Interested students should consult the Department or the Chair in Risk Management and Insurance in the Haskayne School of Business.

Actuarial Science courses, along with Statistics 407, 421, 429 and 505, cover significant portions of the course of study for the early Casualty Actuarial Society Examinations and Society of Actuaries Examinations/Courses. Students are advised to select additional courses in Economics, Finance, Risk Management and Insurance, and Statistics as electives in order to complete the course of study for these professional examinations, and also to prepare for the advanced Casualty Actuarial Society Examinations/Society of Actuaries Examinations/Courses. Students should speak with a Departmental advisor for guidance.

Students who wish to pursue possible credit towards the Society of Actuaries VEE Accounting and Finance requirements are recommended to take Accounting 217 and Finance 317, respectively. Such students must be in good standing and in the third or fourth year of the Actuarial Science program. Certain other prerequisites for these courses may be waived, but Economics 201 and 203 are required for Finance 317. Students should contact an advisor in the Haskayne School of Business for registration approval. (Note, although sufficiently high grades in Accounting 217 and Finance 317 should satisfy the Society of Actuaries' requirements, ultimately the Society of Actuaries will make this determination.

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Honours Program

**Earn at least 63 credits from the following:**

- 3 units - Mathematics 271 or 273
- 9 units - Mathematics 249 or 265, 267, 367
- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Statistics 321 and 323
- 3 units - Computer Science 217 or 231 or Data Science 211
- 12 units - Actuarial Science 325, 327, 427 and 527
- 3 units - Statistics 429
- 21 units - Selected from: Courses labelled Actuarial Science or Statistics 407, 429, 505, 533, 543

#### Required Options - Honours Program

**Earn at least 57 credits from the following:**

- 6 units - Selected from Actuarial Science, Economics, Risk Management and Insurance, and Statistics
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 27 units - Non-Major Field Requirement: Options from outside the Field of Actuarial Science
- 6 units - Options

### Additional Comments:

### Program Sequence

#### Type

Completion Requirement

### Additional Comments:

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Double Major Combination with Mathematics and Actuarial Science
- Double Major and Major/Minor Combinations in Mathematics and Statistics
- Embedded Certificates
- Arts and Science Honours Academy

### Additional Comments:

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Biostatistics at the master's and doctoral levels through the following Faculties and graduate programs:

- Cumming School of Medicine; Community Health Sciences
- Faculty of Science; Mathematics and Statistics

The student will receive the degree offered by the home program:

## UCalgary

- [MTSTMSCT](#)
  - [MDCHMSCT](#)
  - [MTST PhD](#)
  - [MDCHPHD](#)
- 

### Department of Mathematics and Statistics:

Location: Math Sciences Building, Room 462

Program number: 403.220.6299

Fax: 403.282.5150

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

### Department of Community Health Sciences:

Location: Health Sciences Centre, Room G345C

Program number: 403.210.7051

Fax: 403.210.8109

Email address: <mailto:chsgrad@ucalgary.ca>

Web page URL: [https://cumming.ucalgary.ca/gse/about/programs/community-health-sciences#quickset-field\\_collection\\_quicktabs\\_1](https://cumming.ucalgary.ca/gse/about/programs/community-health-sciences#quickset-field_collection_quicktabs_1)

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Biostatistics Specialization are those of the home graduate program:

- [MTSTMSCT](#)
  - [MDCHMSCT](#)
  - [MTST PhD](#)
  - [MDCHPHD](#)
- 

In addition to the [admission](#) requirements of the Faculty of Graduate Studies and home program requirements, all applicants must meet the following requirements:

- In the case of the MSc Biostatistics Specialization, a bachelor's degree in statistics, or its equivalent, is usually required.
- In the case of the PhD Biostatistics Specialization, a master's degree in statistics, or its equivalent, is usually required.
- Students must also have a letter from a faculty member in the home program indicating an agreement to supervise the applicant. Students are strongly encouraged to approach potential supervisors in advance of applying for entry into the home program and Biostatistics specialization.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and home program requirements, the Specialization requires:  
**MSc and PhD students complete:**

Complete ALL of the following Courses:

- MDCH600 - Introduction to Community Health Sciences  
**AND** MDCH640 - Fundamentals of Epidemiology  
**AND** STAT721 - Statistical Inference  
**AND** BIST600 - Research Seminar

PhD students must also complete [STAT641 Statistical Learning](#) or [STAT631 Computational Statistics](#).

Earn at least 3 credits from the following:

- Biostatistics Interdisciplinary Specialization, List A Epidemiology and Health

Relevant topics courses and directed study courses (e.g., [MDCH710 Adv Topics in Biostatistics](#)), and courses from other programs, may be approved by the graduate program director in consultation with the supervisor.

Earn at least 3 credits from the following:

- Biostatistics Interdisciplinary Specialization, List B Biostatistics/Statistics

Relevant topics courses and directed study courses (e.g. [STAT601 Topics Probability&Statistics](#)), and courses from other programs, may be approved by the graduate program director in consultation with the supervisor.

Earn at least 3 credits from the following:

- Biostatistics Interdisciplinary Specialization, List A Epidemiology and Health  
**OR** Biostatistics Interdisciplinary Specialization, List B Biostatistics/Statistics

#### Additional Comments:

In addition, PhD students in the Mathematics and Statistics program must pass two Preliminary Examinations in Statistics based on material for two of the following courses: [STAT701 Theory of Probability I](#), [STAT721 Statistical Inference](#), [STAT631 Computational Statistics](#), [STAT635 Generalized Linear Models](#), [STAT641 Statistical Learning](#).

N.B. PhD required courses (or equivalents) are based on courses taken across graduate studies; i.e., if the student has taken equivalent courses in an MSc program, they are not required to retake these courses.

Students in the Community Health Sciences program must attend all CHS departmental seminars.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant should make requests for advanced credit at the time of application, as part of the admissions process. See [Advanced Credit](#) for further information.

#### Credit for Undergraduate Courses

See requirements of home program.

#### Flexible Grade Option (CG Grade)

See requirements of home program.

#### Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

The maximum completion time allowed for a thesis-based master's program is four years. The maximum completion time allowed for a doctoral program is six years.

## Supervisory Assignments and Required Examinations

See requirements of home program and the Faculty of Graduate Studies academic regulations.

## Faculty Members / Research Interests

Faculty members associated with the Biostatistics specialization have wide-ranging research interests. See the [Biostatistics webpage](#) for more information.

Research topics for thesis-based MSc and PhD applicants should be decided in discussion with supervisors.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

See home program.

## Overview

### General Program Information

#### Program Information

Student enquiries: Undergraduate Science Centre (USC) – Science B 149

Website: [ucalgary.ca/science/data-science/](http://ucalgary.ca/science/data-science/)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Enrolment Limitations in Program

The number of spaces in the Data Science programs are limited and entry is competitive.

## Application to Concentrations and Registration Limitations

At the time of admission, students must choose to specialize in a concentration area (listed below).

Entry into a given concentration may be subject to enrolment limitations.

Students may apply to change their concentration once per year via the online change of program process. Refer to: [D. Change of Faculty or Program](#) for more information.

## Program Details

### Simple Requisites

#### Faculty Requirements

#### Type

## Completion Requirement

### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

## Additional Comments:

## Program Regulations

### Type

Completion Requirement

## Additional Comments:

## Program vs. Faculty Regulations

Regulations governing Data Science are a combination of general Faculty of Science regulations and the additional program specific regulations listed below. It is essential for students to be familiar with both sets of regulations. It is helpful to read [3. Faculty of Science Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Enrolment Limitations in Courses

In the first instance, enrolment in Data Science courses is available to Data Science Majors and Minors who meet the prerequisite(s). Depending on space availability, other students who meet the prerequisite(s) may register in a course. Consult the Schedule Builder in the Student Centre for details regarding enrolment in these courses.

## Courses Constituting the Field of Data Science for the Major Program

### Type

Completion Requirement

### Courses Constituting the Field of Data Science for the Major Program

Students must successfully complete 60 units, to a maximum of 66 units, in Courses Constituting the Field of Data Science while fulfilling Program Requirements.

#### Earn at least 60 credits from the following:

- Courses Constituting the Field of Data Science for the Major Program

## Additional Comments:

## Program Requirements

### Type

Completion Requirement

### Required Courses - Major Program

#### Earn at least 60 credits from the following:

- 30 units - Data Science 221, 305, 335, 414, 433, 443, 471, 479, 501, and 543
- 3 units - Statistics 207

- 3 units - Mathematics 211
- 12 units - Computer Science 217, 219, 319, and 583
- 12 units - Mathematics 249 or 265; 267; 271 or 273; 311

#### Required Concentration - Major Program

Select **ONE** concentration from the following, and complete courses from the corresponding field of study:

Actuarial Science, Anthropology, Archeology, Astrophysics, Biological Sciences, Chemistry, Communication and Media Studies, Economics, Gender and Sexuality Studies, Global Development Studies, Geography, Geology, Geophysics, History, History of Philosophy of Science, International Indigenous Studies, Law and Society, Linguistics, Mathematics, Nanoscience, Physics, Political Science, Sociology, Statistics, or Urban Studies(2).

- 18 units - From **ONE** Concentration area, with a minimum of 6 units at the 400 level or above(1)

Earn at least 18 credits from the following:

- Courses Constituting the Field of Actuarial Science
- Courses Constituting the Field of Anthropology
- Courses Constituting the Field of Archaeology
- Courses Constituting the Field of Astrophysics
- Courses Constituting the Field of Biological Sciences
- Courses Constituting the Field of Chemistry
- Courses Constituting the Field of Communication and Media Studies
- Courses Constituting the Field of Economics
- Courses Constituting the Field of Gender and Sexuality Studies
- Courses Constituting the Field of Global Development Studies
- Courses Constituting the Field of Geography
- Courses Constituting the Field of Geology
- Courses Constituting the Field of Geophysics
- Courses Constituting the Field of History
- Courses Constituting the Field of History and Philosophy of Science
- Courses Constituting the Field of International Indigenous Studies
- Courses Constituting the Field of Law and Society
- Courses Constituting the Field of Linguistics
- Courses Constituting the Field of Mathematics
- Courses Constituting the Field of Nanoscience
- Courses Constituting the Field of Physics
- Courses Constituting the Field of Political Science
- Courses Constituting the Field of Sociology
- Courses Constituting the Field of Statistics
- Courses Constituting the Field of Urban Studies

(1) If a course in the concentration area is found in the list of courses constituting the Field of Data Science, then it cannot be counted towards the concentration. Any course that is taken as part of the concentration that is offered outside the Faculty of Science and does not appear on Table 1 will result in the following:

- Replace 3 units Breadth Requirement with 3 units Option

(2) It is not possible for students in the Data Science program to choose a minor in their area of concentration or any minor offered by the Department in which the concentration courses are offered. Students may complete a minor outside of their area of concentration.

#### Required Options - Major Program

Earn at least 42 credits from the following:

- 12 units - Options chosen from Courses Constituting the Field of Data Science for the Major Program
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted

among the courses from other faculties.

- 12 units - Options

**Additional Comments:**

## Program Sequence

Type

Completion Requirement

**Additional Comments:**

### Recommended Program Sequence for the BSc in Data Science

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Data Privacy, **GCERT Netw** or **GCERT Soft** may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the **Master of** program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/data-privacy>.

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
12 units of coursework consisting of:

**Complete ALL of the following Requirement Sets:**

- Data Privacy GC courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

Advanced credit will not normally be given for the Data Privacy Graduate Certificate program.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For this Graduate Certificate program, credit will not normally be granted for undergraduate courses.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

### Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort. The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the laddered certificate pathway is four years from the beginning of the first certificate program.

### Financial Assistance

Type

Completion Requirement

**Additional Comments:**

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the Awards and Financial Assistance section.

## Overview

### General Program Information

#### Specializations:

- Business Analytics
- Data Science
- Health Data Science and Biostatistics
- Financial and Energy Markets Data Modelling

### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the GCERT Fund may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the Graduate Diploma in Data Science and Analytics program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the Master of within five years of beginning

the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/data-science-analytics-diploma-course-based>

In addition to the Faculty of Graduate Studies [admission requirements](#), all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see [Qualifications](#)). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

##### Completion Requirement

The Diploma requires 24 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

**Complete ANY of the following Course Sets:**

- DSAN Diploma - Business Analytics Specialization  
**OR** DSAN Diploma - Data Science Specialization  
**OR** DSAN Diploma - Health Data Science and Biostatistics Specialization  
**OR** DSAN Diploma - Financial and Energy Markets Data Modelling Specialization

##### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

Advanced Credit will not normally be given for any of the Data Science and Analytics credentials.

### Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limits

The expected completion time for the Graduate Diploma in Data Science and Analytics is 8 months (direct entry, full-time), and 4 months or 8 months (part-time) for students laddering from the Graduate Certificate program, depending on the schedule being offered. The maximum completion time for the Graduate Diploma is three years from the start of the program.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is six years from the start of the first credential in the laddering process.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Diploma program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section.

## Overview

### General Program Information

The Master of Data Science and Analytics is a continuous program with no scheduled break.

#### Specializations:

- Business Analytics
- Data Science
- Health Data Science and Biostatistics
- Financial and Energy Markets Data Modelling

### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the GCERT Fund may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the GDIP Data program within five years of beginning the certificate.

# UCalgary

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the Master of Data Science and Analytics within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/data-science-and-analytics-mdsa-course>.

In addition to the Faculty of Graduate Studies [admission requirements](#), all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see [Qualifications](#)). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

Program/Course Requirements
Type
Completion Requirement
<p>In addition to Faculty of Graduate Studies <a href="#">requirements</a>, the Faculty of Science requires students to complete:</p> <p>The Master of Data Science and Analytics requires 36 units of coursework consisting of:</p> <p><b>Complete ALL of the following Course Sets:</b></p> <ul style="list-style-type: none"><li>• Data Science and Analytics Core Courses</li></ul>
<p><b>Complete ANY of the following Course Sets:</b></p> <ul style="list-style-type: none"><li>• DSAN Diploma - Business Analytics Specialization</li><li><b>OR</b> DSAN Diploma - Data Science Specialization</li><li><b>OR</b> DSAN Diploma - Health Data Science and Biostatistics Specialization</li></ul>

**OR DSAN Diploma - Financial and Energy Markets Data Modelling Specialization**

**Complete ALL of the following Courses:**

- DATA691 - Integrated Topics in Data Science and Analytics

**Complete at least 1 courses in the following course sets:**

- Master of Data Science Internship

Note: Students who acquire a paid internship are to register in Data 693; students who acquire an unpaid internship are to register in Data 695.

**Additional Comments:**

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

Advanced Credit will not normally be given for any of the Data Science and Analytics credentials.

**Flexible Grade Option (CG Grade)**

The Data Science and Analytics Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Time Limits**

The expected completion time for the Master of Data Science and Analytics is 12 months.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all laddered credentials is six years from the start of the first credential in the laddering process.

**Supervisory Assignments**

An Academic Coordinator is assigned to each cohort in the Master's program.

**Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section.

**Overview**

**General Program Information**

**Office:** Science B 149

# UCalgary

Telephone: 403.220.8600

Website: [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

Email: [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

##### Completion Requirement

#### Additional Comments:

#### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of

Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

## Courses Constituting the Field of Environmental Science with a Concentration in Statistics

Type

Completion Requirement

### Courses Constituting the Field of Environmental Science with a Concentration in Statistics

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Statistics while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Statistics

**Additional Comments:**

## Program Requirements

Type

Completion Requirement

### Required Courses - Major Degree with a Concentration in Statistics

**Earn at least 87 credits from the following:**

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 3 units - Earth 210
- 6 units - Physics 211 or 221; and 223
- 12 units - Mathematics 211 or 213; and 249 or 265 or 275; and 267 or 277; and 367
- 15 units - Statistics 321, 323, 421, 429, 517
- 3 units - Statistics 327 or Biology 315
- 12 units - Statistics 423, 425, 505, 407, 519, 523, 525, 531
- 3 units - Computer Science 217 or Data Science 211
- 15 units - Environmental Science 401, 501, 502, 503

### Required Options - Major Degree with a Concentration in Statistics

**Earn at least 33 credits from the following:**

- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 3 units – Non-Major Field Requirement: Options outside of the Field of Environmental Science (Statistics Concentration)
- 15 units - Options

**Additional Comments:**

## Program Sequence

Type

Completion Requirement

**Additional Comments:**

**Recommended Program Sequence for the Statistics Concentration**

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

Completion Requirement

#### Degree Options

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

#### Additional Comments:

## Overview

### General Program Information

Office: Science B 149

Telephone: 403.220.8600

Website: [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

Email: [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see **3.2 Admission**.

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Science with a Concentration in Statistics

##### Type

Completion Requirement

Courses Constituting the Field of Environmental Science with a Concentration in Statistics

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Statistics while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Statistics

#### Additional Comments:

#### Program Requirements

##### Type

## Completion Requirement

### Required Courses - Honours Degree with a Concentration in Statistics

#### Earn at least 87 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 3 units - Earth 210
- 6 units - Physics 211 or 221; and 223
- 12 units - Mathematics 211 or 213; and 249 or 265 or 275; and 267 or 277; and 367
- 15 units - Statistics 321, 323, 421, 429, 517
- 3 units - Statistics 327 or Biology 315
- 12 units - Statistics 423, 425, 505, 407, 519, 523, 525, 531
- 3 units - Computer Science 217 or Data Science 211
- 15 units - Environmental Science 401, 501, 502, 503

### Required Options - Honours Degree with a Concentration in Statistics

#### Earn at least 33 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Statistics
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 12 units - Options

## Additional Comments:

## Program Sequence

### Type

### Completion Requirement

## Additional Comments:

### Recommended Program Sequence for the Statistics Concentration

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see [Recommended Program Sequence](#) for Honours with the Statistics Concentration.

## Degree Options

### Type

### Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs

- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

**Additional Comments:**

## Overview

### General Program Information

#### Laddered Pathway from the Graduate Certificate to the Diploma, and from the Graduate Diploma to the Master of Data Science and Analytics

Students who complete the Graduate Certificate in Fundamental Data Science and Analytics may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted to the **GDIP Data** program within five years of beginning the certificate.

Students who complete the Graduate Diploma in Data Science and Analytics may receive laddering credit for the 24 units of coursework completed in the diploma program if they are subsequently accepted to the **Master of** within five years of beginning the first credential in the laddering process.

Students may also choose to ladder from the Graduate Certificate in Fundamental Data Science and Analytics into the Master of Data Science and Analytics. Upon admission to the Master's degree program, student may receive laddering credit for the 12 units of coursework completed in the Certificate program.

Email: <mailto:prograd.science@ucalgary.ca>

Webpage: <https://science.ucalgary.ca/data-science>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/data-science-analytics-certificate-course-based>.

In addition to the Faculty of Graduate Studies **admission requirements**, all applicants must meet the following requirements:

- A four-year baccalaureate degree from a recognized institution;
- A minimum admission grade point average of 3.00 on a four-point scale or equivalent;
- The successful completion of the following undergraduate courses:
  - one course in computer programming (such as Computer Science 217, Computer Science 231, Data Science 211, or equivalent)
  - one course in statistics (such as Statistics 205, Statistics 217, Statistics 321, Statistics 327, or equivalent), and
  - one course in either calculus or linear algebra (such as Mathematics 211, 249, 265, 275, or equivalent).

Note: In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program (see **Qualifications**). The candidate must provide the Data Science Program Director with evidence demonstrating the potential to successfully undertake this program. Such candidates may also be required to participate in an in-person interview with the Program Director and/or take one or more assessment tests provided by the program to establish their level of proficiency in the subject areas used as program prerequisites.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

The Certificate requires 12 units of coursework consisting of:

**Complete ALL of the following Course Sets:**

- Data Science and Analytics Core Courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) will not normally be given for any of the Data Science and Analytics credentials.

### Flexible Grade Option (CG Grade)

The Data Science and Analytics Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limits

The expected completion time for the Graduate Certificate in Fundamental Data Science and Analytics is four months. The maximum completion time for the Certificate is three years from the start of the program.

For students laddering from the Graduate Certificate and/or the Graduate Diploma program into the Master's, the maximum completion time for all ladderred credentials is six years from the start of the first credential in the laddering process.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Certificate program.

#### Financial Assistance

##### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

## UCalgary

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science. The course descriptions appear in the back of this Calendar in three non-contiguous alphabetically arranged blocks.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

Admission to the General Mathematics program is only available to students in combination with the Bachelor of Education (BEd) program. In cases where students are unable to complete the Bachelor of Education (BEd), students may request to complete the BSc in General Mathematics only.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

The General Mathematics program is only available to students in combination with the Bachelor of Education (BEd) program. In cases where students are unable to complete the Bachelor of Education (BEd), students may request to complete the BSc in General Mathematics only.

For Major Degree and Combined/Concurrent Degree Programs with Other Faculties, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

#### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

## Courses Constituting the Field of Mathematics

### Type

Completion Requirement

#### Courses Constituting the Field of General Mathematics

Students must successfully complete a minimum of 48 units to a maximum of 66 units in Courses Constituting the Field of General Mathematics while fulfilling the Program Requirements.

#### Enroll in the following Course Sets:

- All courses labelled Mathematics(MATH), Statistics (STAT), and Actuarial Science (ACSC)

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Required Courses - Major Program

#### Earn at least 18 credits from the following:

- 15 units - Mathematics 211 or 213; and Mathematics 311 or 313; and Mathematics 249 or 265 or 275; and Mathematics 267 or 277; Mathematics 271
- 3 units - Computer Science 217 or 231 or 235 or Data Science 211

#### Required Options - Major Program

#### Earn at least 102 credits from the following:

- 30 units - Selected from the Field of General Mathematics
- 3 units - Selected from the Field of General Mathematics at the 400 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 33 units - Non-Major Field Requirement: Options from outside of the Field of General Mathematics
- 18 units - Options

### Additional Comments:

## Overview

### General Program Information

### Department Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

Department Office: Mathematical Sciences 476

Telephone: 403.220.8600

Website: [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

### Simple Requisites

#### Faculty of Science Minor Program Regulations

##### Type

Completion Requirement

For Minor Program regulations, or if completing a Major/Minor Combination within Mathematics, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs
- Double Major and Major/Minor Combinations in Mathematics and Statistics

**Additional Comments:**

#### Courses Constituting the Field of Mathematics

##### Type

Completion Requirement

Courses Constituting the Field of Mathematics

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Mathematics

**Additional Comments:**

#### Required Courses - Minor Program

##### Type

Completion Requirement

Required Options - Minor Program

30 units from the Field of Mathematics with at least 15 units at the 300 level or above and 3 units at the 400 level or above

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Mathematics

**Note:** The Mathematics Minor is not available to Actuarial Science Majors and General Mathematics Majors. The Mathematics Minor is not available in combination with any other Minor program offered by the Department of Mathematics and Statistics.

**Additional Comments:**

## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, or a Double Major or Major/Minor Combination, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Courses Constituting the Field of Mathematics

##### Type

## Completion Requirement

### Courses Constituting the Field of Mathematics

Students must successfully complete a minimum of 54 units, to a maximum of 66 units, in Courses Constituting the Field of Mathematics while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Mathematics

**Additional Comments:**

## Program Requirements

### Type

#### Completion Requirement

### Required Courses - Major Program

**Earn at least 21 credits from the following:**

- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 3 units - Computer Science 231 or 217 or Data Science 211
- 3 units - Mathematics 516 or 518 or Statistics 517

### Required Options - Major Program

**Earn at least 99 credits from the following:**

- 6 units - Any two courses selected from: Courses labelled Statistics; Data Science 305
- 21 units - Additional courses from the Field of Mathematics at the 300 level or above
- 9 units - Additional courses from the Field of Mathematics at the 400 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 33 units - Non-Major Field Requirement: Options outside of the Field of Mathematics
- 12 units - Options

**Additional Comments:**

## Concentrations

### Type

#### Completion Requirement

### Concentrations

Students may choose to focus their program on one of three areas of interest by including a specified set of courses into their Major degree. Students must apply for concentrations via their Student Centre. Concentrations will appear on the transcript.

Students should carefully plan their course selections to ensure that prerequisites for upper-level courses are obtained. Consultation with the Associate Head - Undergraduate or the Undergraduate Science Centre (USC) on a regular basis is highly recommended.

#### A. Concentration in Statistics

Students must successfully complete a minimum of 54 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 30 units - Courses labelled Statistics at the 400 level or higher or Actuarial Science 437 or 511 or 531 or 537
- 3 units - Statistics 517
- 3 units - Computer Science 231 or 217 or Data Science 211
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 33 units - Non-Major Field Requirement: Options outside of the Field of Mathematics
- 12 units - Options

**B. Concentration in Computational Applied Mathematics**

Students must successfully complete a minimum of 54 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 3 units - Mathematics 211 or 213
- 6 units - Mathematics 311 and 361 or 313 and 3 units in the Field of Mathematics at the 300 level or above
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 6 units - Mathematics 367; and Mathematics 375 or 376
- 3 units - Mathematics 413
- 3 units - Mathematics 307
- 9 units - Mathematics 325, 391 and 493
- 3 units - Mathematics 335
- 3 units - Additional course from the Field of Mathematics at the 400 level or above
- 3 units - Mathematics 516 or 518 or Statistics 517
- 3 units - Computer Science 217, 231 or Data Science 211
- 3 units - Computer Science 219 or 233
- 3 units - Computer Science 331
- 3 units - Software Engineering 300
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 24 units - Non-Major Field Requirement: Options not in the Field of Mathematics
- 12 units - Options

**C. Concentration in Mathematical Finance and Risk Management**

Students must successfully complete a minimum of 60 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 3 units - Mathematics 211 or 213
- 6 units - Mathematics 311 and 361; or 313 and 3 units in the Field of Mathematics at the 300 level or above
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273

- 9 units - Statistics 321, 323, 407
- 6 units - Mathematics 367; and Mathematics 375 or 376
- 3 units - Mathematics 413
- 3 units - Mathematics 307
- 3 units - Mathematics 335
- 15 units - Mathematics 383, 391, 493, 581 and 583
- 3 units - Mathematics 516 or 518 or Statistics 517
- 3 units - Computer Science 217, 231 or Data Science 211
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.

## Additional Comments:

### Program Sequence

#### Type

Completion Requirement

#### Additional Comments:

##### Recommended Program Sequence for the BSc in Mathematics

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Double Major and Major/Minor Combinations in Mathematics and Statistics
- Double Major Combination with Mathematics and Actuarial Science
- Embedded Certificates
- Arts and Science Honours Academy

## Additional Comments:

## Overview

### General Program Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science. The course descriptions appear in the back of this Calendar in three non-contiguous alphabetically arranged blocks.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, or as a Double Major or Major/Minor Combination, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Mathematics and Statistics are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read [Faculty Regulations](#) first.

Students should consult Academic Requirements in their Student Centre periodically to ensure that all requirements are being met. Students are strongly urged to consult the Department or Undergraduate Science Centre (USC) at all stages of their program.

#### Courses Constituting the Field of Mathematics

##### Type

## Completion Requirement

### Courses Constituting the Field of Mathematics

Students must successfully complete a minimum of 60 units to a maximum of 78 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Mathematics

## Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

### Required Courses - Honours Program

**Earn at least 21 credits from the following:**

- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 3 units - Computer Science 231 or 217 or Data Science 211
- 3 units - Mathematics 518 (with a grade of "B" or higher)

### Required Options - Honours Program

**Earn at least 99 credits from the following:**

- 6 units - Any two courses selected from: Courses labelled Statistics; Data Science 305
- 21 units - Additional courses from the Field of Mathematics at the 300 level or above
- 9 units - Additional courses from the Field of Mathematics at the 400 level or above
- 6 units - Additional courses from the Field of Mathematics at the 500 level or above
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 21 units - Non-Major Field Requirement: Options outside of the Field of Mathematics
- 18 units - Options

## Additional Comments:

## Concentrations

### Type

#### Completion Requirement

### Concentrations

Students may choose to focus their program on one of three areas of interest by including a specified set of courses into their Major degree. Students must apply for concentrations via their Student Centre. Concentrations will appear on the transcript.

Students should carefully plan their course selections to ensure that prerequisites for upper-level courses are obtained. Consultation with the Associate Head - Undergraduate or the Undergraduate Science Centre (USC) on a regular basis is highly recommended.

### A. Honours Degree with a Concentration in Statistics

Students must successfully complete a minimum of 60 units to a maximum of 78 units in Courses Constituting the Field of

Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 6 units - Mathematics 211 or 213; Mathematics 311 or 313
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 30 units - Courses labelled Statistics at the 400 level or higher or Actuarial Science 437 or 511 or 531 or 537
- 3 units - Courses labelled Statistics at the 500 level or higher or Actuarial Science 511 or 531 or 437
- 3 units - Statistics 517
- 3 units - Mathematics 518 (with a grade of "B" or higher)
- 3 units - Computer Science 231 or 217 or Data Science 211
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 21 units - Non-Major Field Requirement: Options outside of the Field of Mathematics
- 18 units - Options

#### B. Honours Degree with a Concentration in Computational Applied Mathematics

Students must successfully complete a minimum of 54 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 3 units - Mathematics 211 or 213
- 6 units - Mathematics 311 and 361; or 313 and 3 units in the Field of Mathematics at the 300 level or above
- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 6 units - Statistics 321 and 323
- 6 units - Mathematics 367; and Mathematics 375 or 376
- 3 units - Mathematics 413
- 3 units - Mathematics 307
- 9 units - Mathematics 325, 391 and 493
- 3 units - Mathematics 335
- 3 units - Additional course from the Field of Mathematics at the 400 level or above
- 3 units - Mathematics 518 (with a grade of "B" or higher)
- 6 units - Additional courses from the Field of Mathematics at the 500 level or above
- 3 units - Computer Science 217 or 231 or Data Science 211
- 3 units - Computer Science 219 or 233
- 3 units - Computer Science 331
- 3 units - Software Engineering 300
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 12 units - Non-Major Field Requirement: Options not in the Field of Mathematics
- 18 units - Options

#### C. Honours Degree with a Concentration in Mathematical Finance and Risk Management

Students must successfully complete a minimum of 60 units to a maximum of 66 units in Courses Constituting the Field of Mathematics while fulfilling the following requirements:

**Complete ALL of the following Course Sets:**

- 3 units - Mathematics 211 or 213
- 6 units - Mathematics 311 and 361; or 313 and 3 units in the Field of Mathematics at the 300 level or above

- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 3 units - Mathematics 271 or 273
- 9 units - Statistics 321, 323, 407
- 6 units - Mathematics 367; and Mathematics 375 or 376
- 3 units - Mathematics 413
- 3 units - Mathematics 307
- 3 units - Mathematics 335
- 15 units - Mathematics 383, 391, 493, 581 and 583
- 3 units - Mathematics 518 (with a grade of "B" or higher)
- 3 units - Computer Science 217 or 231 or Data Science 211
- 3 units - Computer Science 219 or 233
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 24 units - Non-Major Field Requirement: Options not in the Field of Mathematics
- 12 units - Options

**Additional Comments:**

**Program Sequence**

**Type**

Completion Requirement

**Additional Comments:**

**Recommended Program Sequence for the BSc Honours in Mathematics**

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

**Degree Options**

**Type**

Completion Requirement

**Degree Options**

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Double Major and Major/Minor Combinations in Mathematics and Statistics
- Double Major Combination with Mathematics and Actuarial Science
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

### General Program Information

The Master of Information Security and Privacy is a continuous program with no scheduled break.

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the GCERT Data, GCERT Netw or GCERT Soft may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Master of Information Security and Privacy program within 5 years of completing the certificate.

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Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/information-security-and-privacy-misp-course>.

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In addition to Faculty of Graduate Studies admission requirements, admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see G.A.1 Qualifications), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

Students must complete 30 units:

#### Enroll in the following Course Sets:

- Information Security and Privacy 601
- Minimum of one of: Information Security and Privacy 603, 605, 611
- Minimum of two of: Information Security and Privacy 641, 643, 645
- Minimum of two of: Information Security and Privacy 621, 623, 625, 631
- Information Security and Privacy 691 Internship\*

Elective: Students may choose to complete [ISEC651 Topics in Security and Privacy](#).

\*Normally, students will be required to complete [ISEC691 Info Sec & Privacy Internship](#). However, with the permission of the Program Director, students may complete [ISEC681 Info Sec & Privacy Capstone](#) instead.

### Additional Comments:

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

[Advanced credit](#) will not normally be given for the MISP program.

## Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Credit will not normally be granted for undergraduate courses.

## Supervisory Assignments

An Academic Coordinator is assigned to each cohort in the Master's program.

## Time Limits

Expected completion time for full-time students in the Master of Information Security and Privacy for full-time students is 12 months. The maximum completion time is four years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

## Financial Assistance

### Type

Completion Requirement

## Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

#### Specializations:

- Actuarial Science
- Biostatistics
- Mathematical Finance
- Mathematics
- Statistics

The Master of Science (course-based) degree may be completed on a part-time basis. The normal course load for a full-time course-based Master of Science student is 9 units per term.

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-master-science-course-based>.

In addition to the Faculties of Graduate Studies and Science [requirements](#), the Department requires:

- Normally, bachelor's degree, or its equivalent, in the subject of the specialization to which the application is made, or a closely related area.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based), or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- Three reference forms with reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:

All students must complete 25.5 units of coursework at the graduate level. Coursework must include:

- For all specializations: completion of the seminar course (1.5 units) relevant to the specialization in the first year of the program. In addition:

Earn at least 1.5 credits from the following:

- MTST Graduate Seminar Courses

b) For the **Mathematics** specialization: 6 units from **List A**.

Earn at least 6 credits from the following:

- MTST Graduate List A

c) For the **Statistics** specialization: at least 9 units from **List C**.

Earn at least 9 credits from the following:

- MTST Graduate List C

d) For the **Actuarial Science** specialization: 6 units from **List C** and 6 units from **List D**.

Earn at least 12 credits from the following:

- MTST Graduate List C  
**AND** MTST Graduate List D

e) For the **Mathematical Finance** specialization: 6 units from **list E**, 6 units from **List F** and 6 units from **List G** (or 6 units from **List E**, 9 units from **List F**, and 3 units from **List G**).

Earn at least 18 credits from the following:

- MTST Graduate List E  
**AND** MTST Graduate List F  
**AND** MTST Graduate List G

f) For the **Biostatistics** specialization: **Biostatistics 601**, **Biostatistics 610**, minimum of 9 units from **List C**, and maximum of 9 units of **electives in Biostatistics or Statistics** (which may include courses from **List C**).

Earn at least 9 credits from the following:

- MTST Graduate List C

**Additional Comments:**

#### Additional Program Information

Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

### Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

## Time Limit

The expected completion time for full-time master's students is two years. The maximum completion time allowed for a course-based master's program is six years.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

### General Program Information

#### Specializations:

- Actuarial Science
- [BioStatist](#)
- Mathematical Finance
- Mathematics
- Statistics

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-master-science-thesis-based>.

In addition to the Faculties of Graduate Studies and Science [requirements](#), the Department requires:

- Normally, bachelor's degree, or its equivalent, in the subject of the specialization to which the application is made, or a closely related area.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based), or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- Three reference forms with reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

All students must complete course work to the equivalent of an honours bachelor's degree plus at least 16.5 units at the graduate level. Course work must include:

a) For all specializations: completion of the seminar course (1.5 units) relevant to the specialization, in the first year of the program.

Earn at least 1.5 credits from the following:

- MTST Graduate Seminar Courses

b) For the **Mathematics** specialization: 6 units from List A.

Earn at least 6 credits from the following:

- MTST Graduate List A

c) For the **Statistics** specialization: at least 9 units from List C, 6 units of which must be Statistics 701 and 721.

Earn at least 9 credits from the following:

- MTST Graduate List C

d) For the **Actuarial Science** specialization: 6 units from List C and 6 units from List D.

Earn at least 12 credits from the following:

- MTST Graduate List C  
**AND** MTST Graduate List D

e) For the **Mathematical Finance** specialization: 6 units from List E, 3 units from List F, and 3 units from List G.

Earn at least 12 credits from the following:

- MTST Graduate List E  
**AND** MTST Graduate List F  
**AND** MTST Graduate List G

#### Additional Comments:

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

## Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

### Time Limit

The expected completion time for full-time master's students is two years. The maximum completion time allowed is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The Graduate Program Director, Department of Mathematics and Statistics, assigns supervisors based upon the graduate student's proposed program admission.

### Required Examinations

#### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

##### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

##### *Composition of the Committee*

The Internal Examiner may be internal to the home program. However, it is strongly encouraged that whenever reasonable the Internal Examiner should be external to the home program.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

General Program Information

# UCalgary

## General Program Information

### Specializations:

- Actuarial Science
- **BioStatist**
- Mathematical Finance
- Mathematics
- Statistics

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/mathematics-statistics/future-students/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/math-statistics-doctor-philosophy-thesis-based>.

In addition to the Faculties of Graduate Studies and Science **requirements**, the Department requires:

- A master's degree or equivalent in the subject of the specialization to which the application is made, or a closely related area.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); or a minimum IELTS score of 7.0; or a minimum PTE score of 68.
- Three reference forms with reference letters.
- Excellent students, admitted to the master's program, may be transferred to the PhD program after having demonstrated exceptional performance at the graduate level, subject to endorsement by the supervisor and approval by the Graduate Committee. Such transfer requests are to be initiated by the supervisor and are to include information about research ability.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies **requirements**, the Faculty of Science requires students to complete:

Course requirements for the Doctor of Philosophy beyond those for a master's degree are determined on an individual basis, but the following rules apply: doctoral students must complete 25.5 units of graduate-level coursework in their total graduate program (MSc and PhD). PhD coursework must include:

- For all specializations: completion of the seminar course (1.5 units) relevant to the specialization, in the first or second year of the program.

**Earn at least 1.5 credits from the following:**

- MTST Graduate Seminar Courses

- For the **Mathematics** specialization: at least 15 units taken in the doctoral program at the University of Calgary. **6 of these units must come from List A and 3 units from List A or List B.**

**Earn at least 9 credits from the following:**

- MTST Graduate List A  
**AND** MTST Graduate List B

c) For the **Statistics** specialization: **at least 9 units from List C, 6 units of which must be Statistics 701 and 721.**

Earn at least 9 credits from the following:

- MTST Graduate List C

d) For the **Actuarial Science** specialization: **STAT721 Statistical Inference** (from List C) **and at least 3 more units from List C and 6 more units from List D.**

Earn at least 9 credits from the following:

- MTST Graduate List C  
**AND** MTST Graduate List D

e) For the **Mathematical Finance** specialization: **MATH681 Stochastic Calculus Finance, MATH683 Computational Finance,** **at least 3 additional units from List F, and at least 6 additional units from List F or List G.**

Earn at least 9 credits from the following:

- MTST Graduate List F  
**AND** MTST Graduate List G

**Additional Comments:**

## Preliminary Examinations

Doctoral students must pass written Preliminary Examinations during first year but no later than 18 months from the beginning of their doctoral programs and before the oral Field of Study examination.

- Mathematics PhD students must pass Preliminary Examinations based on material for three courses, two of which must come from List A and the third from List A or List B. Preliminary examinations will be offered during the final examination period in those semesters during which the corresponding courses are offered.
- Statistics PhD students must pass two Preliminary Examinations, one in probability based on Statistics 701 and the other in statistics based on Statistics 721. These examinations are usually offered in May and/or in December.
- Actuarial Science PhD students must pass two Preliminary Examinations based on material for two courses from List C or D.
- Biostatistics PhD students must pass two Preliminary Examinations in Statistics based on material for two courses from List C.
- Mathematical Finance PhD students must pass two Preliminary Examinations on material for two 600 or 700-level courses from List E or List F.

All Mathematics PhD students are required to give three invited or contributed presentations during their doctoral degree, not including presentations that are required as part of a graduate course or the 600 seminar course.

## Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as a requirement of another completed degree/diploma. The determination for advanced credit will be made prior to entry into the program.

## Flexible Grade Option (CG Grade)

Students admitted to the MTST programs of the Department of Mathematics and Statistics, will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate-level credit may be given for courses taken below the 600-level. At least one half of a graduate student's course work must be at the 600 level or higher and only where appropriate to a student's program may credit be given for courses numbered 500–599.

## Time Limit

The expected completion time for a doctoral student is four years, and the maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director, Department of Mathematics and Statistics, assigns supervisors based upon the graduate student's proposed program admission.

## Required Examinations

### Candidacy

Doctoral students must complete a written thesis proposal and pass an oral Field of Study examination. For complete details of the examination format and other candidacy requirements, see [Departmental Candidacy Requirements](#) and Faculty of Graduate Studies [Candidacy](#) regulations.

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

Final thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program. However, it is strongly encouraged that whenever reasonable the Internal Examiner should be external to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar. Successful applicants may be offered departmental teaching assistantships and/or research stipends in their offer letter.

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Network Security, [GCERT Data](#) or [GCERT Soft](#) may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the [Master of](#) program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/network-security-cert>.

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
  - Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.
- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or

reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Faculty of Science requires students to complete:  
12 units of coursework consisting of:

**Complete ALL of the following Requirement Sets:**

- Network Security GC Courses

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced credit will not normally be given for the Network Security Graduate Certificate.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the [Flexible Grade Option \(CG Grade\)](#).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For this Graduate Certificate program, credit will not normally be granted for undergraduate courses.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

### Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort.  
The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

#### Financial Assistance

##### Type

Completion Requirement

#### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

#### Department Information

Courses offered by the Department bear the labels Mathematics, Statistics and Actuarial Science.

All students intending to pursue a Major or Honours program in Mathematics or Actuarial Science should consult the Associate Head - Undergraduate. The Associate Head - Undergraduate can provide advice on such important matters as specialized programs available within the field, recommended course sequences, possible combinations of Major and Minor fields and recommended undergraduate study leading to graduate study.

**Department Office:** Mathematical Sciences 476

**Telephone:** 403.220.8600

**Website:** [science.ucalgary.ca/mathematics-statistics](http://science.ucalgary.ca/mathematics-statistics)

## Admissions

### Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

### Simple Requisites

#### Faculty of Science Minor Program Regulations

##### Type

Completion Requirement

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Statistics

##### Type

Completion Requirement

Courses Constituting the Field of Statistics

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Statistics

**Additional Comments:**

#### Required Courses - Minor Program

##### Type

## Completion Requirement

### Required Courses - Minor Program

#### Earn at least 30 credits from the following:

- 6 units - Mathematics 249 or 265 or 275; Mathematics 267 or 277
- 6 units - Mathematics 211 or 213; Mathematics 271 or 273
- 6 units - Statistics 321 and 323

**Note:** The Minor in Statistics is not available to students majoring in Mathematics, Actuarial Science or General Mathematics. Students in the Mathematics program have the option of doing the concentration in Statistics. Students outside the department can complete only one minor offered by the Department of Mathematics and Statistics.

### Required Options - Minor Program

12 units - Additional courses from the Field of Statistics at the 400 level or higher

#### Earn at least 12 credits from the following:

- Courses Constituting the Field of Statistics

### Additional Comments:

## Overview

### General Program Information

#### Laddering from Graduate Certificates to Master of Information Security and Privacy:

Students who complete the Graduate Certificate in Software Security, [GCERT Data](#) or [GCERT Netw](#) may receive laddering credit for the 12 units of coursework completed in the certificate program if they are subsequently accepted into the Master of Information Security and Privacy program within 5 years of completing the certificate.

Location: Science A Building, Room 229

Email: <mailto:prograd.science@ucalgary.ca>

Web page: <https://science.ucalgary.ca/information-security>

## Admissions

### Program Admissions Information

The deadline for completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/software-security-cert>.

In addition to Faculty of Graduate Studies [admission requirements](#), admission to the Information Security and Privacy programs requires:

- A four-year Bachelor's degree or equivalent from a recognized institution.
- Successful completion of an undergraduate course in each of the following areas:
  - Computer programming with understanding of execution environments (e.g., Computer Science 233 or equivalent)
  - Algorithms and data structures (e.g., Computer Science 331 or equivalent)
- Either Operating systems (e.g., Computer Science 457 or equivalent); or Computer networks (e.g., Computer Science 441 or equivalent).
- Two letters of reference.
- Resume or CV.

- Optional letter of intent.

*Alternate Routes to Admission:* In exceptional circumstances (see [G.A.1 Qualifications](#)), individuals who do not meet formal academic requirements but who have significant life achievement and/or work experience may be considered for admission to the Graduate Certificate programs or the Masters of Information Security program. The candidate must provide the Information Security Program Director with evidence demonstrating the potential to successfully undertake these programs. Such candidates may also be required to participate in an in-person interview with the Program Director and, if admitted, be required to take additional courses to meet completion requirements.

Students who successfully complete one of the Graduate Certificate programs, and who then apply to the other Graduate Certificate program and/or to the Master of Information Security degree program within 4 years of completing the first certificate, will not be required to submit reference letters or previous transcripts again. If students complete new coursework elsewhere, they will be required to submit new transcripts.

Students who have successfully completed two of the Graduate Certificate programs with a cumulative GPA of 3.00 or higher will meet the minimum admission requirements for the Master of Information Security and Privacy program. In addition, students who choose to ladder from the certificates into the Master's degree will not normally be required to submit transcripts or reference letters (unless they have completed other credit courses from a post-secondary institution in the meantime).

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

Completion Requirement

Complete ALL of the following Requirement Sets:

- Software Security GC courses

Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

Additional Comments:

### Advanced Credit

Advanced credit will not normally be given for the Software Security Graduate Certificate.

### Flexible Grade Option (CG Grade)

The Information Security Professional Program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

For the Software Security Graduate Certificate, credit will not normally be granted for undergraduate courses.

### Supervisory Assignments

An Academic Coordinator is assigned to each cohort-based Graduate Certificate program.

## Time Limits

Expected completion time for this Graduate Certificate is 4, 8, 10 or 12 months, depending on the schedule set for that cohort. The maximum time allowed is three years.

Maximum completion time for students to complete all requirements of the Master of Information Security and Privacy via the ladder certificate pathway is four years from the beginning of the first certificate program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

The program itself does not provide scholarships, however financial assistance may be available to qualified students through alternative means. For information on awards, see the [Awards and Financial Assistance](#) section.

# Mechanical & Manufacturing Engineering; Dept of Department

The Department of Mechanical and Manufacturing Engineering is part of the Schulich School of Engineering.

For more information concerning undergraduate program regulations and requirements, refer to the [Schulich School of Engineering](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Mechanical and Manufacturing Engineering](#).

## Programs

### Overview

#### General Program Information

The MEng program may be completed on a full-time or part-time basis.

Three options are available for students entering the Master of Engineering (course-based) program:

- MEng, Mechanical Engineering
- MEng with an Interdisciplinary Specialization (Energy and Environment or Environmental)
- MEng with Pipeline Engineering Specialization

#### Specializations:

- Pipeline Engineering
- [Energy&Env](#)
- [Environ En](#)

The Schulich School of Engineering also offers a [Master of Engineering \(MEng\), course-based with Internship](#) in the Mechanical and Manufacturing Engineering program.

### MEng Graduate Program Office

Location: Schulich School of Engineering Block C, Room 205

Phone number: 403.220.2001

Email address: <mailto:meng@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/mechanical-manufacturing/programs/graduate>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/mechanical-manufacturing-engineering-master-engineering-course-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies [requirements](#) for admission, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering minimum requirements, the Department requires:

#### Complete ANY of the following Requirement Sets:

- MEng, Course-based Mechanical and Manufacturing
- MEng, Course-based Mechanical and Manufacturing with an Interdisciplinary Specialization
- MEng, Course-based, Mechanical and Manufacturing, Pipeline Engineering Specialization

For students completing the [Master of Engineering \(MEng\), course-based with Internship](#):

- A minimum of 30 units of courses as outlined by the MEng course-based program plus 12 - 24 units of internship courses.

#### Additional Comments:

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

## Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion time is six years for a Master of Engineering (course-based). The Master of Engineering, course-based with Internship is normally a three-year program.

## Supervisory Assignments

The Master of Engineering (course-based) does not require a supervisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

MEng students are typically admitted without funding from the program. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

#### Specializations:

- Pipeline Engineering
- [Energy&Env](#)
- [Environ En](#)
- [Energy&Env](#)

Department Office (MSc and PhD)

Location: Mechanical Engineering Building, Room 505 / Information & Communications Technology, Room 402

Phone number: 403.220.5771

Email address: [mailto:gradenme@ucalgary.ca](mailto:mailto:gradenme@ucalgary.ca)

## Admissions

### Program Admissions Information

## Program Admission Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/mechanical-manufacturing-engineering-doctor-philosophy-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for [admission](#), the Schulich School of Engineering minimum requirements are as follows:

- MSc degree, or transfer from MSc program, or, in exceptional cases, BSc degree or equivalent.
- A minimum admission grade point average of 3.50 on a four-point scale or equivalent.
- Transfer from MSc to PhD program is allowed only after the successful completion of all courses required for the MSc degree with a minimum GPA of 3.50.
- Two reference letters.

Holders of MSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate Engineering courses. These courses will not count for credit toward their doctoral program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

- For students entering the PhD program with a MSc or equivalent, at least 6 units beyond the Master's degree are required at the graduate level (600-level or higher).
- For students without a MSc or equivalent, at least 21 units at the graduate level (600-level or higher) are required. Of these courses, 6 units may be taken from outside the Department, no more than 3 units can be a senior undergraduate course (500-level), and three units must be selected from either [ENME631 Advncd Nmrcl Mthds For Engg](#) or [ENME633 Mathematical Techn For Engineers](#).
- In addition to the courses listed in (a) or (b), students must present at the annual Mechanical Engineering Graduate Student Conference before their candidacy exam to receive credit for [ENME713 Research Seminar II](#).
- Following the candidacy exam, students must make one additional presentation at the Mechanical Engineering Graduate Student Conference in the Winter Term as partial fulfillment of the degree requirement.
- Students wishing to complete the Pipeline Engineering Specialization must complete 9 units of pipeline engineering approved courses with a pipeline engineering project.

Note: The student's supervisor and the Associate Head (Graduate Studies) must approve all courses taken outside of the department.

#### Pipeline Engineering Approved Courses:

- [ENME619 Special Problems](#) (619.82)
- [ENME620 ENGO for Pipeline Systems](#)
- [ENME622 Pump and Compressor Stations](#)
- [ENME624 Fundamentals of Pipeline ECON](#)
- [ENME626 Corrosion Science Pipelines](#)

- [ENME628 Pipeline Coatings](#)
- [ENME630 Fndmtl's Lqd Hydr'l'c Pipelines](#)
- [ENME632 Fndmtl's Gas Hydr'l'c Pipelines](#)
- [ENME634 Pipeline Geotechnical ENGG](#)
- [ENME636 Strct'l Anly's Buried Steel PL](#)
- [ENME640 Stress Corrosion Cracking Mat](#)
- [ENME667 Fracture Mechanics](#)
- [ENME669 Fatigue of Materials](#)

This list is provided as a reference. At the discretion of the Graduate Program Director and the Director of the Pipeline Engineering Centre (PEC), additional courses may be approved for the pipeline engineering specialization. Please be advised that not all of these courses may be offered in any one semester. For more information about approved courses, contact the Graduate Program Advisor at <mailto:gradenme@ucalgary.ca>.

Further information about this specialization is available on the Pipeline Engineering Centre's website <https://schulich.ucalgary.ca/pec>.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

See Program/Course requirements for details.

### Time Limit

Typical completion time is three to four years in a doctoral program. Maximum completion time is six years for a doctoral program.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

### Other Information

Students may hire an editor to copyedit their theses subject to the conditions outlined in the Faculty of Graduate Studies [thesis guidelines](#).

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

#### Supervisory Assignments and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## **Supervisory Assignments**

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see [academic regulations](#)) and are approved by the Department Head or the Graduate Program Director.

## **Required Examinations**

The Schulich School of Engineering has established common minimum examination requirements for all its graduate programs.

## **Doctoral Candidacy Requirements**

All Doctoral students must pass an oral Field of Study examination and an oral defence of the thesis proposal. For complete details of the examination format and other candidacy requirements, see the Candidacy Requirements document available on the Department website.

## **Doctoral Final Oral Examination**

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis before an examination can be scheduled.

### *Composition of the Committee*

The examining committee consists of: the Supervisory Committee, an Internal Examiner who may be internal to the home program, and one member external to the University of Calgary. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions during the presentation. The maximum allowable two-hour examination period does not include the time spent on student presentation.

Thesis oral examinations are open.

## **Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## **Overview**

General Program Information

## **Contact Information**

Engineering Student Centre

Location: Engineering C 205

Student Information: [engginfo@ucalgary.ca](mailto:engginfo@ucalgary.ca) or 403.220.5732

Website: [schulich.ucalgary.ca](http://schulich.ucalgary.ca)

## Introduction

The Schulich School of Engineering at the University of Calgary was established in 1965. The degrees awarded by the Schulich School since its inception have been recognized by the Canadian Engineering Accreditation Board (CEAB). The engineering curriculum consists of a well-balanced mixture of traditional topics in engineering sciences and specialization in subjects relevant to current industrial practice. The academic staff and students of the Schulich School of Engineering come from all parts of the world, giving the Schulich School its uniquely friendly and international atmosphere.

## Enquiries

Enquiries regarding admission, registration, interpretation of regulations, or any matter regarding undergraduate studies in Engineering should be directed to the Engineering Student Centre, Engineering C 205, telephone 403.220.5732. Students and prospective students are invited to view pertinent information available through the engineering website, [schulich.ucalgary.ca/](http://schulich.ucalgary.ca/).

## Admissions

### Program Admissions Information

Prospective students wishing to enter the Bachelor of Science (BSc) in Mechanical Engineering must meet the criteria listed in section **3.1 Admissions** of this Calendar.

## Program Details

### Simple Requisites

#### Schulich School of Engineering Requirements

##### Type

Completion Requirement

##### School Regulations

For other regulations related to the Schulich School of Engineering see **3. Schulich School of Engineering Regulations**.

##### Complete ALL of the following Requirement Sets:

- Schulich School of Engineering - Registration
- Schulich School of Engineering - Course Work
- Schulich School of Engineering - Academic Performance, Review, and Student Standing
- Schulich School of Engineering - Examinations
- Schulich School of Engineering - Graduation

##### Additional Comments:

#### Mechanical Engineering, Regular Program

##### Type

Completion Requirement

##### First Year Curriculum

##### Common to all programs:

- [First Year Curriculum](#)

##### Mechanical Engineering - Required Courses

##### Earn at least 75 credits from the following:

- Chemistry 379

- Digital Engineering 319, 407
- Engineering 311, 349
- Manufacturing Engineering 417
- Mechanical Engineering 101, 317, 337, 339, 341, 421, 461, 471, 473, 479, 485, 493, 495, 585, 599
- 6 units from Engineering 501 and 502; or Engineering 503 and 504; or Mechanical Engineering 501 and 502
- Mathematics 375
- 3 units from Physics 365 or 369
- 12 units of Mechanical Engineering Technical Electives

#### Complementary Studies - Specified Courses

Earn at least 12 credits from the following:

- Engineering 209 (Economics 209) - not open to first-year students
- Engineering 213 or Communications Studies 363
- Engineering 481
- Engineering 513

#### Complementary Studies - General Courses

Earn at least 6 credits from the following:

- General Complementary Studies Courses

Additional Comments:

#### Mechanical Engineering, Minor in Aerospace Engineering

##### Type

Completion Requirement

Required Courses – Mechanical Engineering, Minor in Aerospace Engineering

In addition to the required courses for Mechanical Engineering, the following courses must be completed:

Complete ALL of the following Course Sets:

- Aerospace Engineering 410, 411
- Electrical Engineering 301
- Engineering 501 and 502\*
- Geomatics Engineering 333
- 9 units of Aerospace Engineering Technical Electives

**The following Mechanical Engineering Required Courses are NOT required for this program:**

- Chemistry 379
- Mechanical Engineering 337
- 6 units from Mechanical Engineering 501 and 502 or Engineering 503 and 504
- 12 units of the 12 required units from Mechanical Engineering Technical Electives

Additional Comments:

#### Mechanical Engineering, Minor in Biomedical Engineering

##### Type

Completion Requirement

Required Courses – Mechanical Engineering, Minor in Biomedical Engineering

In addition to the required courses for Mechanical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Biomedical Engineering 301, 309, 401, 415
- 9 units from Biomedical Minor Technical Electives

*\*Students can choose to complete either:*

- 3 units from Mechanical Engineering Technical Electives and
  - 9 units of Biomedical Engineering Technical Electives
- OR
- 12 units from Biomedical Engineering Technical Electives

**The following Mechanical Engineering Required Courses are NOT required for this program:**

- Chemistry 379
- 12 units of the 12 required units of Mechanical Engineering Technical Electives
- 3 units of the 6 required units of General Complementary Studies

**Additional Comments:**

#### **Mechanical Engineering, Minor in Digital Engineering**

**Type**

Completion Requirement

Required Courses – Mechanical Engineering, Minor in Digital Engineering

In addition to the required courses for Mechanical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Digital Engineering 310, 311, 410, 411, 510, 511
- 3 units of Digital Engineering Technical Electives

**The following Mechanical Engineering Required Courses are NOT required for this program:**

- Chemistry 379
- 12 units of the 12 required units of Mechanical Engineering Technical Electives

**Additional Comments:**

#### **Mechanical Engineering, Minor in Energy and Environment**

**Type**

Completion Requirement

Required Courses – Mechanical Engineering, Minor in Energy and Environment

In addition to the required courses for Mechanical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Energy and Environment, Engineering 355
- Energy and Environment, Engineering 377
- Energy Management 301
- Science 529
- Energy and Environment Technical Electives\*

*\*Students can choose to complete either:*

- 3 units from Mechanical Engineering Technical Electives and
  - 6 units of Energy and Environment Technical Electives
- OR
- 9 units from Energy and Environment Technical Electives

**The following Mechanical Engineering Required Courses are NOT required for this program:**

- 3 units of the 6 required units of General Complementary Studies
- 12 units of the 12 required units of Mechanical Engineering Technical Electives

**Additional Comments:**

#### **Mechanical Engineering, Minor in Manufacturing Engineering**

##### **Type**

Completion Requirement

Required Courses – Mechanical Engineering, Minor in Manufacturing Engineering

In addition to the required courses for Mechanical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Manufacturing Engineering 514
- 9 units of Manufacturing Engineering Technical Electives a

**The following Mechanical Engineering Required Courses are NOT required for this program:**

- 12 units of the 12 required units of Mechanical Engineering Technical Electives

**Additional Comments:**

#### **Mechanical Engineering, Minor in Mechatronics**

##### **Type**

Completion Requirement

Required Courses Mechanical Engineering, Minor in Mechatronics

In addition to the required courses for Mechanical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Electrical Engineering 301, 327
- Geomatics Engineering 333
- Mechanical Engineering 501, 502, 561, 562
- 6 units of Mechatronics Technical Electives

**The following Mechanical Engineering Required Courses are NOT required for this program:**

- Chemistry 379
- Mechanical Engineering 337
- 6 units from Engineering 501 and 502 or Engineering 503 and 504
- 12 units of the 12 required units of Mechanical Engineering Technical Electives

**Additional Comments:**

**Mechanical Engineering, Minor in Petroleum Engineering**

**Type**

**Completion Requirement**

Required Courses – Mechanical Engineering, Minor in Petroleum Engineering

In addition to the required courses for Mechanical Engineering, the following courses must be completed:

**Complete ALL of the following Course Sets:**

- Petroleum Engineering 523
- 9 units of Petroleum Engineering Technical Electives

**The following Mechanical Engineering Required Courses are NOT required for this program:**

- 12 units of the 12 required units of Mechanical Engineering Technical Electives

**Additional Comments:**

**Mechanical Engineering/BComm Combined Degree Program**

**Type**

**Completion Requirement**

Required Courses – Mechanical Engineering/BComm Combined Degree Program

In addition to the required courses for Mechanical Engineering, students must complete courses for the Bachelor of Commerce. Refer to the [Haskayne School of Business](#) and the [Bachelor of Commerce](#) for more information.

**Complete ALL of the following Course Sets:**

- Economics 201†
- Economics 203†
- Junior English (3 units)†
- Strategy and Global Management 217†

†The courses listed above are required for the Bachelor of Commerce and are used to substitute for some of the Complementary Studies (listed above) in the Mechanical Engineering, Regular Program.

**The following Mechanical Engineering Required Courses are NOT required for this program:**

- Engineering 209 (Economics 209)
- Engineering 213 or Communication Studies 363
- 6 of the 6 units of General Complementary Studies
- Chemistry 379
- 6 units of the 12 required units of Mechanical Engineering Technical Electives

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Schulich School of Engineering - Combined Degrees
- Schulich School of Engineering - Minors
- Minor Programs
- Embedded Certificates
- Engineering Internship Program

**Additional Comments:**

## Overview

General Program Information

Specializations:

- Pipeline Engineering
- Energy&Env
- Environ En
- Energy&Env

### Department Office

Location: Mechanical Engineering Building, Room 505 / Information & Communications Technology, Room 402

Phone number: 403.220.5771

Email address: <mailto:gradenme@ucalgary.ca>

Web page URL: <https://schulich.ucalgary.ca/mechanical-manufacturing>

## Admissions

Program Admissions Information

Deadline for submission of completed applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/mechanical-manufacturing-engineering-master-science-thesis-based>.

The Schulich School of Engineering has established common minimum student admission requirements for all its graduate programs. Departments and graduate programs may have additional requirements over and above those of the Schulich School of Engineering.

In addition to the Faculty of Graduate Studies requirements for **admission**, the Schulich School of Engineering minimum requirements are as follows:

- a) BSc degree or equivalent.
- b) A minimum admission grade point average of 3.00 on a four-point scale or equivalent.
- c) Holders of BSc or equivalent degrees in Science, Medicine, Kinesiology or other Engineering, if accepted, may be required to take additional senior undergraduate engineering courses. These courses will not be counted for credit toward their graduate program. Holders of bachelor's degrees from disciplines other than Engineering, Science, Medicine or Kinesiology are required to complete a minimum of 30 units make-up undergraduate engineering courses with a minimum GPA of 3.00 on a four-point scale before admission.
- d) Two reference letters are required for thesis-based (MSc) graduate programs. References are not required for course-based (MEng) graduate programs.

In exceptional circumstances, students who do not meet the entrance requirements (but have BSc degrees in the same or

equivalent Engineering discipline and a GPA of at least 2.70) may be considered for admission after upgrading requirements have been met. These include a minimum of 18 units of make-up courses, or 9 units of make-up courses if they have acceptable industrial experience, with a minimum grade of 3.00 on a four-point scale in each course. At least 12 or 6 units of these courses, respectively, must be graduate-level courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

ENME636 Strct'l Anly's Buried Steel PL

In addition to the Faculty of Graduate Studies' [requirements](#) and the Schulich School of Engineering requirements, the Department normally requires:

a) At least 15 units, of which 6 units may be taken from outside the Department, and no more than 3 units can be a senior undergraduate course (500-level).

b) 3 units must be selected from either [ENME631 Advncd Nmrc'l Mthds For Engg](#) or [ENME633](#)

[Mathematical Techn For Engineers](#).

c) In addition to the 15 units, students must present at the annual Mechanical Engineering Graduate Student Conference in the Winter Term to receive credit for Mechanical Engineering 613.

d) Students wishing to complete the Pipeline Engineering Specialization must complete 9 units of pipeline engineering approved courses with a pipeline engineering project.

#### Pipeline Engineering Approved Courses:

- [ENME619 Special Problems \(619.82\)](#)
- [ENME620 ENGO for Pipeline Systems](#)
- [ENME622 Pump and Compressor Stations](#)
- [ENME624 Fundamentals of Pipeline ECON](#)
- [ENME626 Corrosion Science Pipelines](#)
- [ENME628 Pipeline Coatings](#)
- [ENME630 Fndmtl's Lqd Hydr'l'c Pipelines](#)
- [ENME632 Fndmtl's Gas Hydr'l'c Pipelines](#)
- [ENME634 Pipeline Geotechnical ENGG](#)
- [ENME636 Strct'l Anly's Buried Steel PL](#)
- [ENME640 Stress Corrosion Cracking Mat](#)
- [ENME667 Fracture Mechanics](#)
- [ENME669 Fatigue of Materials](#)

This list is provided as a reference. At the discretion of the Graduate Program Director and the Director of the Pipeline Engineering Centre (PEC), additional courses may be approved for the pipeline engineering specialization. Please be advised that not all of these courses may be offered in any one semester. For more information about approved courses, contact the Graduate Program Advisor at <mailto:gradenme@ucalgary.ca>.

Further information about this specialization is available on the Pipeline Engineering Centre's website [schulich.ucalgary.ca/pec](http://schulich.ucalgary.ca/pec).

#### Additional Program Information

##### Type

Completion Requirement

Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process, in consultation with the proposed supervisor and the Graduate Director. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission. Students who receive advanced course credit when admitted to a master's program may be able to accelerate the completion of their degree.

### Flexible Grade Option (CG Grade)

Students admitted to the Schulich School of Engineering will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

See Program/Course requirements for details.

### Time Limit

Typical completion times are one to two years for full-time students in a master's program. Maximum completion times is four years for a Master of Science.

See individual program pages on the Future Students website: <https://ucalgary.ca/future-students/graduate/explore-programs>.

### Other Information

Students may hire an editor to copyedit their theses subject to the conditions outlined in the Faculty of Graduate Studies thesis guidelines.

Graduate students have the opportunity to participate in the Transformative Talent Internship option.

### Supervisory Assignments and Required Examinations

Type

Completion Requirement

Additional Comments:

### Supervisory Assignments

Supervisors and supervisory committees are assigned according to the Faculty of Graduate Studies regulations (see Supervision) and are approved by the Department Head or the Graduate Program Director.

### Final Oral Examination

*Composition of the Committee*

The examining committee consists of: the Supervisor, an additional member of the University of Calgary academic staff, and Internal Examiner who may be internal to the home program. If applicable, the Co-Supervisor will also be part of the committee. The examination is chaired by a neutral chair (non-voting), proposed by the Department Head or Graduate Director. The examining committee must be approved by the Faculty of Graduate Studies.

The student shall make a public twenty-minute presentation of their thesis research, normally immediately before the oral examination. Examining committee members should attend this presentation but should refrain from asking questions. The maximum allowable two-hour examination period does not include the time spent on student presentation.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based candidates are typically admitted with financial support provided by an interested supervisor, the department, or an official organization. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

This is a distance-delivery program with courses offered online only.

<https://schulich.ucalgary.ca/mechanical-manufacturing>

## Admissions

### Program Admissions Information

Deadlines are available on the Future Students webpage: <https://schulich.ucalgary.ca/mechanical-manufacturing>.

In addition to the Faculty of Graduate Studies admission requirements, applicants to the Graduate Certificate in Pipeline Engineering are required to meet the following criteria:

- A four-year baccalaureate degree in engineering or equivalent from a recognized institution.

Note: As per [G.A.1 Qualifications](#) in the Graduate Calendar, in exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievement may be considered for admission to this program. The candidate must provide the program director with evidence demonstrating the potential to successfully undertake this certificate program. Such candidates may also be required to participate in an in-person interview with the program director.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

Students must complete 12 units from the lists below, which must include at least one course from each thematic area:

*Conceptualization and Design Thematic Area:*

**Complete at least 1 of the following courses:**

- ENME664 - Pipeline Design  
**OR** ENME668 - Pipeline Economics  
**OR** ENME674 - Gas and Liquid Hydraulics  
**OR** ENME675 - Materials Selection and Metallurgy  
**OR** ENME676 - Pipeline Stress Analysis  
**OR** ENME677 - Geotechnical Aspects in Pipeline Engineering  
**OR** ENME678 - Environmental Impact and Regulatory Matters

*Construction Thematic Area:*

**Complete at least 1 of the following courses:**

- ENME642 - Construction & Project Management  
**OR** ENME644 - Welding & Joining Processes

*Operation and Maintenance Thematic Area:*

**Complete at least 1 of the following courses:**

- ENME680 - Operation and Maintenance  
**OR** ENME682 - Automation and Control Systems  
**OR** ENME684 - Corrosion, Cracking, and Coatings  
**OR** ENME686 - Integrity Management  
**OR** ENME688 - Pipeline In-Line Inspection Technologies  
**OR** ENME689 - Pipeline Leak Detection Technologies

**Additional Comments:**

Students must pass each course with a grade of "B-" or higher and maintain a cumulative GPA of 3.00 to progress in the certificate program. Students who receive a grade of "C+" or lower will be given one chance to retake the course, and if they do not attain a grade of "B" or higher they will be required to withdraw.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

Advanced Credit will not normally be granted towards the Graduate Certificate in Pipeline Engineering.

**Flexible Grade Option (CG Grade)**

Students admitted to the Schulich School of Engineering will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Time Limits**

The expected completion time for the Certificate is four months for students in the intensive pathway (12 units in one term).

The expected completion time for the Certificate is eight months for students completing it over two consecutive academic terms (6 units per term).

**Supervisory Assignments**

A Coordinator is assigned to each cohort in the Graduate Certificate in Pipeline Engineering.

**Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Philosophy; Department of Department

The Department of Philosophy is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Philosophy](#).

## Programs

### Overview

General Program Information

### Contact Information

Website: <https://arts.ucalgary.ca/philosophy>

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

Additional Comments:

### Courses Constituting the Field of Gender and Sexuality Studies

Type

Completion Requirement

Courses Constituting the Field of Gender and Sexuality Studies

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field

of Gender and Sexuality Studies with at least 18 units at the 300 level or above, while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Gender and Sexuality Studies

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Specified Courses - Minor Program

**Earn at least 9 credits from the following:**

- Core Courses: 9 units chosen from Gender and Sexuality Studies 201, 311, 315, 405

Required Options - Minor Program

*Breadth in Gender and Sexuality Studies*

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of Gender and Sexuality Studies

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/philosophy](https://arts.ucalgary.ca/philosophy)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Gender and Sexuality Studies Major program is designed to provide students with knowledge of the rapidly developing disciplinary and interdisciplinary literature in the field, while providing them with an understanding of the reasons for the development of a feminist scholarship. From its activist and academic perspective, the program will help prepare students for careers in government, social work, and business, while also providing them with a mode of analysis applicable to related fields, and to their own lives.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Philosophy or Gender and Sexuality Studies) Program must meet the criteria listed in section **AA.5 Undergraduate Degree Admission Requirements** of this Calendar. Annual application deadlines are found in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)
- Faculty of Arts - Degrees with a Double Major

#### Additional Comments:

#### Courses Constituting the Field of Gender and Sexuality Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of Gender and Sexuality Studies while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Gender and Sexuality Studies

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 12 credits from the following:

- Core Courses: 12 units Gender and Sexuality Studies 201\*, 311, 315 and 405

\*Students entering the program in their third or fourth year of study may apply to the Program Co-ordinator to have an additional Gender and Sexuality Studies Option counted in lieu of Gender and Sexuality Studies 201.

#### Gender and Sexuality Studies Options

##### Earn at least 36 credits from the following:

- Courses Constituting the Field of Gender and Sexuality Studies

#### Additional Comments:

#### Degree Options

##### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: <https://arts.ucalgary.ca/philosophy>

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Gender and Sexuality Studies Major program is designed to provide students with knowledge of the rapidly developing disciplinary and interdisciplinary literature in the field, while providing them with an understanding of the reasons for the development of a feminist scholarship. From its activist and academic perspective, the program will help prepare students for careers in government, social work, and business, while also providing them with a mode of analysis applicable to related fields, and to their own lives.

## Admissions

Program Admissions Information

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Students majoring in Gender and Sexuality Studies are eligible to apply only if they will complete the program during the following academic year. Students wishing to apply to an Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

**Additional Comments:**

## Courses Constituting the Field of Gender and Sexuality Studies

### Type

Completion Requirement

successfully complete a minimum of 54 units in Courses Constituting the Field of Gender and Sexuality Studies while fulfilling the Program Requirements.

Students must successfully complete a minimum of 54 units in Courses Constituting the Field of Gender and Sexuality Studies while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Gender and Sexuality Studies

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 18 credits from the following:**

- Core Courses: 12 units Gender and Sexuality Studies 201\*, 311, 315 and 405
- Undergraduate Thesis: 6 units Gender and Sexuality Studies 590\*\*

\*Students entering the program in their third or fourth year of study may apply to the Program Co-ordinator to have an additional Gender and Sexuality Studies Option counted in lieu of Gender and Sexuality Studies 201.

\*\*A grade of "B-" or higher in Gender and Sexuality Studies 590 is required for graduation with the BA Honours degree.

Major-Field Required Options

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Gender and Sexuality Studies

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/philosophy](https://arts.ucalgary.ca/philosophy)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

The Minor in History and Philosophy of Science is aimed in the first instance at students in the BSc Programs in the Faculty of Science, the Schulich School of Engineering, the Cumming School of Medicine, and the Faculty of Arts. This Minor complements disciplinary studies in the sciences with the study of the historical and philosophical background and foundation of the sciences.

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

### Overlapping Programs

The Minor in History and Philosophy of Science cannot be taken in conjunction with programs in Philosophy.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

Additional Comments:

### Courses Constituting the Field of History and Philosophy of Science

Type

Completion Requirement

## Courses Constituting the Field of History and Philosophy of Science

Students must complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of the History and Philosophy of Science, while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of History and Philosophy of Science

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

### Specified Courses - Minor Program

**Earn at least 12 credits from the following:**

- History of Science: 6 units from History 372, 476, 493.38, 493.39, 541, Neuroscience 421
- Philosophy of Science: 6 units from Philosophy 367, 467, 517, 565, 567.

### Required Options - Minor Program

An additional 18 units, with at least 3 units at the 400 level or above.

**Earn at least 18 credits from the following:**

- Courses Constituting the Field of History and Philosophy of Science

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/philosophy](https://arts.ucalgary.ca/philosophy)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

## Completion Requirement

### Faculty of Arts Graduation Requirements

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

#### Additional Comments:

## Courses Constituting the Field of Philosophy

### Type

#### Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Philosophy while fulfilling the Program Requirements

#### Earn at least 30 credits from the following:

- Courses Constituting the Field of Philosophy

#### Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

#### Completion Requirements

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Philosophy with at least 18 units at the 300 level or above.

#### Earn at least 30 credits from the following:

- Courses Constituting the Field of Philosophy

#### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/philosophy](https://arts.ucalgary.ca/philosophy)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

In philosophy we ask fundamental questions about ourselves and the world, as well as practical questions about how to live a good life and how to construct a just society. As an academic discipline, philosophy is subdivided into areas such as ethics and political philosophy, aesthetics, epistemology (the theory of knowledge), metaphysics (the theory of reality or being), logic and the philosophy of logic, philosophy of language, philosophy of mind, philosophy of science, philosophy of religion, and the history of philosophy. Philosophy graduates pursue careers in business, law, the arts, and politics.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Philosophy or Gender and Sexuality Studies) Program must meet the criteria listed in section [A.A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

#### Additional Comments:

#### Courses Constituting the Field of Philosophy

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Philosophy while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of Philosophy

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 9 credits from the following:

- Logic: 3 units Philosophy 279 or 377
- Core Courses: 6 units Philosophy 395, 397

#### Major-Field - Required Options

- *Upper-Level Courses:* An additional 24 units from Courses Constituting the Field of Philosophy at the 400 level or above.

- *Philosophy Options*: An additional 15 units from Courses Constituting the Field of Philosophy.

**Earn at least 39 credits from the following:**

- Courses Constituting the Field of Philosophy

Language Requirement

6 units in a single language other than English

**Earn at least 6 credits**

**Additional Comments:**

## Concentrations

Type

Completion Requirement

Concentrations

Students completing a BA or BA Honours in Philosophy can elect to complete a concentration in Law and Philosophy or Philosophy and Religion.

**Fulfill ANY of the following requirements:**

Law and Philosophy

Students must complete 18 units selected from:

**Earn at least 18 credits from the following:**

- Philosophy 264, 313, 314, 325, 361, 425, 453, 525

Other senior-level Philosophy courses may be accepted when the topic is appropriate and with approval from the Department of Philosophy.

**OR**

Philosophy and Religion

Students must complete 18 units selected from:

**Earn at least 18 credits from the following:**

- Philosophy 201, 331, 335, 527
- Religious Studies 363, 444, 463

Other senior-level Philosophy or Religious Studies courses may be accepted when the topic is appropriate and with approval from the Department of Philosophy.

**Additional Comments:**

## Degree Options

Type

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs

### Overlapping Programs

The Minor in History and Philosophy of Science cannot be taken in conjunction with programs in Philosophy.

The Concentration in Philosophy and Religion cannot be taken in conjunction with a combined degree or double BA or BA Honours program in Philosophy and Religious Studies or a Major/Minor combination.

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/philosophy](https://arts.ucalgary.ca/philosophy)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

In philosophy we ask fundamental questions about ourselves and the world, as well as practical questions about how to live a good life and how to construct a just society. As an academic discipline, philosophy is subdivided into areas such as ethics and political philosophy, aesthetics, epistemology (the theory of knowledge), metaphysics (the theory of reality or being), logic and the philosophy of logic, philosophy of language, philosophy of mind, philosophy of science, philosophy of religion, and the history of philosophy. Philosophy graduates pursue careers in business, law, the arts, and politics.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Philosophy or Gender and Sexuality Studies) Program must meet the criteria listed in section [AA.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Students wishing to apply to a Philosophy Honours program must apply through their [Student Centre](#) for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

Additional Comments:

### Courses Constituting the Field of Philosophy

#### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Philosophy while fulfilling the Program Requirements.

#### Earn at least 60 credits from the following:

- Courses Constituting the Field of Philosophy

Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 18 credits from the following:

- Logic: 3 units Philosophy 279 or 377
- Core Courses: 6 units Philosophy 395, 397
- Honours Seminar: 3 units Philosophy 597
- Honours Thesis: 6 units Philosophy 590

A grade of "B-" or higher in Philosophy 590 is required for graduation with the BA Honours degree.

#### Major-Field - Required Options

#### Earn at least 42 credits from the following:

- Courses Constituting the Field of Philosophy
- Upper-Level Courses: An additional 27 units from Courses Constituting the Field of Philosophy at the 400 level or above, 3 units of which must be at the 500 level.
- Philosophy Options: An additional 15 units from Courses Constituting the Field of Philosophy.

#### Language Requirement

6 units in a single language other than English.

**Additional Comments:**

**Concentrations**

**Type**

Completion Requirement

**Concentrations**

Students completing a BA or BA Honours in Philosophy can elect to complete a concentration in Law and Philosophy or Philosophy and Religion.

**Fulfill ANY of the following requirements:**

**Law and Philosophy**

Students must complete 18 units selected from:

**Earn at least 18 credits from the following:**

- Philosophy 264, 313, 314, 325, 361, 425, 453, 525

Other senior-level Philosophy courses may be accepted when the topic is appropriate and with approval from the Department of Philosophy.

**OR**

**Philosophy and Religion**

Students must complete 18 units selected from:

**Earn at least 18 credits from the following:**

- Philosophy 201, 331, 335, 527
- Religious Studies 363, 444, 463

Other senior-level Philosophy or Religious Studies courses may be accepted when the topic is appropriate and with approval from the Department of Philosophy.

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

**Degree Options**

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

**Overlapping Programs**

The Minor in History and Philosophy of Science cannot be taken in conjunction with programs in Philosophy.

The Concentration in Philosophy and Religion cannot be taken in conjunction with a combined degree or double BA or BA Honours program in Philosophy and Religious Studies or a Major/Minor combination.

**Additional Comments:**

## Overview

### General Program Information

The course-based Master of Arts degree may be completed on a full-time or a part-time basis.

#### Specializations:\*

- History and Philosophy of Science
- Philosophy of Religion

\*These two specializations are offered in co-operation with the Departments of History and Classics and Religion respectively. Selecting a specialization is not mandatory.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-course](http://grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-course)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

A minimum of 30 units, including at least 6 units in the History of Philosophy and 6 units in 20th Century or Contemporary Philosophy.

#### Additional Program Information

##### Type

## Completion Requirement

### Additional Comments:

### Advanced Credit

The Department does not normally give advanced credit for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level required for admission. Normally, advanced credit may be given for a maximum of 9 units.

### Flexible Grade Option (CG Grade)

The Department of Philosophy will allow students to pursue the Flexible Grade Option (CG Grade).

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

### Time Limit

Expected completion time for full-time students in a master's course-based program is two years. Maximum completion time is six years.

## Supervisory Assignments

### Type

Completion Requirement

### Additional Comments:

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A supervisory committee at the master's level is not normally appointed. When such a committee is deemed necessary, the Dean's approval must be obtained.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Course-based MA students normally do not receive department funding.

For information on awards, see the Awards and Financial Assistance section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

### Specializations:\*

- History and Philosophy of Science
- Philosophy of Religion

\*These two specializations are offered in co-operation with the Departments of History and Classics and Religion respectively. Selecting a specialization is not mandatory.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](http://DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary (ucalgary.ca))

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-thesis](http://grad.ucalgary.ca/future-students/explore-programs/philosophy-ma-thesis).

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Department requires:

- Students must complete a minimum of 21 units of coursework, including [PHIL603 Graduate Proseminar](#) (normally taken in the first year in program) and Philosophy 699 (normally taken in the second year). Incoming students determine coursework in consultation with the Graduate Program Director.
- In the specializations History and Philosophy of Science and Philosophy of Religion, courses taken in History or Religious Studies, respectively, may, with departmental approval, count as fulfilling course requirements for the degree.
- Students in the specialization in History and Philosophy of Science must show competence in logic. This requirement may be met by:
  - successfully completing [PHIL677 Metalogic](#) or [PHIL679 Topics in Logic](#) as part of the program course requirements; or
  - serving as a Graduate Assistant (Teaching) for [PHIL279 Logic I](#); or
  - completing [PHIL279 Logic I](#) or [PHIL377 Elementary Formal Logic](#) (with a grade of B or better) in addition to the program course requirements\*.

*\*Students who have completed Philosophy 279 or 377 (or its equivalent at another university) may request an exemption from the logic requirement from the Graduate Program Director.*

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The Department does not normally give **advanced credit** for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level required for admission. Normally, advanced credit may be given for a maximum of 9 units.

### Flexible Grade Option (CG Grade)

The Department of Philosophy will allow students to pursue the **Flexible Grade Option (CG Grade)**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

### Time Limit

Expected completion time for full-time students in a master's thesis-based program is two years. Maximum completion time is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A supervisory committee at the master's level is not normally appointed. When such a committee is deemed necessary, the Dean's approval must be obtained.

### Thesis Examinations

In addition to the Faculty of Graduate studies **thesis requirements**, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Thesis-based MA students are guaranteed funding for the first two years of their program.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

Satisfactory academic progress in the student's program is required for funding

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [DEPARTMENT OF PHILOSOPHY | Faculty of Arts | University of Calgary \(ucalgary.ca\)](#)

## Admissions

### Program Admissions Information

The deadline for submitting complete applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/philosophy-phd](https://grad.ucalgary.ca/future-students/explore-programs/philosophy-phd)

In addition to Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A completed four-year undergraduate degree with honours or a major in philosophy; however, applicants with a degree in a related academic field will be considered.
- b) Three letters of reference, and a sample of written work, such as a recent essay, written in English. Applications will not be considered without a sample of written work. The sample should be 10-15 pages including bibliography.
- c) A minimum grade point average (GPA) of 3.50 or higher on a four-point scale over the last 60 units and/or the last two years of study in their degree.
- d) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 97 (Internet-based test); an IELTS score of 7.0; a CAEL score of 70 (with no section less than 70); a PTE score of 68; a Duolingo score of 135 (with no subscore below 115); or a Cambridge score of 191. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in Academic Writing and Oral Communication, and a minimum grade of "B+" in all other courses.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) Students must normally complete a minimum of 18 units for students with a Master of Arts degree, or a minimum of 36 units

for students entering directly from an honours undergraduate program, including **PHIL603 Graduate Proseminar** (normally taken in the first year in program).

b) All students must show competence in logic. This requirement may be met by:

- successfully completing **PHIL677 Metalogic** or **PHIL679 Topics in Logic** as part of the program course requirements; or
- serving as a Graduate Assistant (Teaching) for **PHIL279 Logic I**; or
- completing **PHIL279 Logic I** or **PHIL377 Elementary Formal Logic** (with a grade of B or better) in addition to the program course requirements\*.

*\*Students who have completed Philosophy 279 or 377 (or its equivalent at another university) may request an exemption from the logic requirement from the Graduate Program Director.*

c) In addition to a) and b), students must complete **PHIL700 Doctoral Rsrc'h Prof Devlpmn't** after course and candidacy requirements are completed. Philosophy 700 is normally taken in the year after advancing to candidacy.

Note: Normally, in both master's and doctoral programs, no more than 3 units of Directed Reading can be taken to satisfy the minimum course requirement.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The Department does not normally give advanced credit for courses taken previously. However, in special circumstances, a request for advanced credit may be considered if it is made as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to raise the grade point average to a level required for admission. Normally, advanced credit may be given for a maximum of 9 units.

## Flexible Grade Option (CG Grade)

The Department of Philosophy will allow students to pursue the **Flexible Grade Option (CG Grade)**.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Normally, undergraduate courses will not be credited towards completion of course requirements in a graduate program.

## Time Limit

Expected completion time for full-time students is four years in a doctoral program. Maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Students are assigned an interim advisor until they have an opportunity to become acquainted with members of the faculty. Each student must have an assigned supervisor by the end of the second regular academic session after first registration (April for September registrants and December for January registrants). The choice of supervisor must be by mutual arrangement between the student and faculty member concerned, and approved by the Department.

A doctoral student shall be under the general supervision of a supervisory committee. After consultation with the student, the supervisor will submit a list of possible members of the supervisory committee to the Graduate Studies Committee for approval. The supervisory committee should be established as soon as possible and no later than three months after the supervisor's appointment.

## Candidacy

In addition to Faculty of Graduate Studies [candidacy](#) requirements, the program requires:

Doctoral students must complete two field of study papers, a field of study oral examination, a written thesis proposal and an oral examination on the thesis proposal. For complete details of the candidacy requirements, see the [Philosophy Doctoral Candidacy Requirements](#).

## Thesis Examinations

In addition to the Faculty of Graduate studies [thesis requirements](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

PhD students are guaranteed funding for the first four years of their program.

For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

Satisfactory academic progress in the student's program is required for funding.

# Physics & Astronomy; Department of Department

The Department of Physics and Astronomy is part of the Faculty of Science.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Science](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Physics and Astronomy](#).

## Programs

### Overview

#### General Program Information

Department Office: Science B 605

Telephone: 403.220.5385

Fax: 403.289.3331

Website: [science.ucalgary.ca/physics-astronomy](http://science.ucalgary.ca/physics-astronomy)

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## Admissions

### Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

### Simple Requisites

#### Faculty of Science Minor Program Regulations

##### Type

Completion Requirement

#### Faculty of Science Minor Program Regulations

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

#### Additional Comments:

#### Courses Constituting the Field of Astrophysics

##### Type

Completion Requirement

#### Courses Constituting the Field of Astrophysics

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Astrophysics

#### Additional Comments:

#### Required Courses - Minor Program

##### Type

Completion Requirement

#### Required Courses - Minor Program

**Earn at least 24 credits from the following:**

- 3 units - Astrophysics 305
- 3 units - Physics 211 or 221 or 227
- 9 units - Physics 229, 341, 381
- 3 units - Physics 259, 323, 355
- 6 units - Astrophysics 401 and 403

#### Required Options - Minor Program

**Earn at least 6 credits from the following:**

- Courses Constituting the Field of Astrophysics

Note: This is in addition to those specifically required above.

#### Additional Comments:

**Note:** The preceding courses require prerequisites in Mathematics and Computer Science; see the course descriptions for more details.

## Overview

### General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5385

**Fax:** 403.289.3331

**Website:** [science.ucalgary.ca/physics-astronomy](http://science.ucalgary.ca/physics-astronomy)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Double Major and Major/Minor Combinations Submit

A Major in either Physics or Astrophysics cannot be combined with either a Minor in Physics or Astrophysics.

Students may not complete more than one Minor offered by the Department of Physics and Astronomy.  
Students may complete Physics and Astrophysics as a Double Major program.

### Courses Constituting the Field of Astrophysics

#### Type

Completion Requirement

#### Courses Constituting the Field of Astrophysics

Students must successfully complete a minimum of 60 units to a maximum of 66 units in Courses Constituting the Field of Astrophysics while fulfilling the Program Requirements.

#### Earn at least 60 credits from the following:

- Courses Constituting the Field of Astrophysics

#### Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Required Courses - Major Program

#### Earn at least 75 credits from the following:

- 3 units - Astrophysics 305
- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 265 or 275 or 249
- 3 units - Mathematics 267 or 277
- 3 units - Chemistry 201, 203, 209 or 211
- 3 units - Computer Science 217 or Data Science 211
- 9 units - Astrophysics 307, 401, 403
- 24 units - Physics 341, 343, 355, 375, 381, 443, 449 and 455
- 6 units - Two of Physics 481, Astrophysics 503 or Astrophysics 509
- 3 units - Mathematics 311 or 313
- 6 units - Mathematics 375 or 376, and Mathematics 367 or 377
- 3 units - Physics 435 or Mathematics 433

#### Required Options - Major Program

#### Earn at least 45 credits from the following:

- 9 units - 400- or 500-level from the Field of Astrophysics
- 3 units - Science options
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 9 units - Non-Major Field Requirement: Options that are not in the Field of Astrophysics
- 6 units - Options

#### Additional Comments:

### Program Sequence

#### Type

## Completion Requirement

### Additional Comments:

#### Recommended Program Sequence for the BSc in Astrophysics

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

#### Completion Requirement

### Degree Options

To complete an **optional** enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5385

**Fax:** 403.289.3331

**Website:** [science.ucalgary.ca/physics-astronomy](http://science.ucalgary.ca/physics-astronomy)

## Admissions

### Program Admissions Information

For Faculty of Science admission information see **3.2 Admission**.

## Program Details

### Simple Requisites

### Faculty Requirements

#### Type

#### Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

##### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the [Undergraduate Science Centre \(USC\)](#) at all stages of their program.

#### Double Major and Major/Minor Combinations Submit

A Major in either Physics or Astrophysics cannot be combined with either a Minor in Physics or Astrophysics.

Students may not complete more than one Minor offered by the Department of Physics and Astronomy.

Students may complete Physics and Astrophysics as a Double Major program.

#### Courses Constituting the Field of Astrophysics

##### Type

Completion Requirement

##### Courses Constituting the Field of Astrophysics

Students must successfully complete a minimum of 69 units to a maximum of 78 units in Courses Constituting the Field of Astrophysics while fulfilling the Program Requirements.

**Earn at least 69 credits from the following:**

- Courses Constituting the Field of Astrophysics

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

##### Required Courses - Honours Program

**Earn at least 93 credits from the following:**

- 3 units - Astrophysics 305
- 6 units - Physics 227(1) or 211 or 221; and 229
- 3 units - Mathematics 211 or 213

- 3 units - Mathematics 265(2) or 275(2) or 249(2)
- 3 units - Mathematics 267(2) or 277(2)
- 3 units - Chemistry 201 or 203 or 211 or 209
- 3 units - Computer Science 217 or Data Science 211
- 9 units - Astrophysics 307, 401, 403
- 24 units - Physics 341, 343, 355, 375, 381, 443, 449 and 455
- 9 units - Physics 481, and Astrophysics 503 and 509
- 3 units - Mathematics 311 or 313
- 6 units - Mathematics 375(2) or 376(2), and Mathematics 367(2)
- 3 units - Physics 435 or Mathematics 433
- 15 units - Physics 451, 457, 501, 543, and 599

(1) The recommended course for the Physics major is Physics 227.

(2) The recommended sequence for Mathematics courses in Physics and Astronomy is Mathematics 265, 267, 376, and 367.

#### Required Options - Honours Program

##### Earn at least 27 credits from the following:

- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 9 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### Recommended Program Sequence for the BSc Honours in Astrophysics

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an **optional** enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Arts and Science Honours Academy
- Embedded Certificates

Additional Comments:

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Computational Neuroscience in the following faculties and graduate programs:

- Cumming School of Medicine, Neuroscience
- Department of Computer Science
- Faculty of Arts, Psychology
- Faculty of Science, Physics and Astronomy
- Graduate Program in Biomedical Engineering

The specialization is offered at the MSc (thesis-based) and PhD levels.

Location: ACH B4-514

Faculty Number: 403-955-7389

Fax: 403-955-2772

E-mail address: <mailto:slbray@ucalgary.ca>

Web page URL: <https://hbi.ucalgary.ca/computational-neuroscience/graduate-specialization/about-program>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Computational Neuroscience specialization are those of the home graduate program:

- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Neuro](#)
- [PHD Neuroc](#)
- [MSCT Physi](#)
- [PHD Physic](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Admission into a graduate program that offers the interdisciplinary specialization and the submission and approval of a written request to the specialization director to join the specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

Program/Course Requirements  
Type

Completion Requirement

**Additional Comments:**

In addition to the [requirements](#) of the Faculty of Graduate Studies and the home program:

**MSc students are required to complete:**

- [MDSC628 Intro Computational Neuroscien\\*](#); plus
- a minimum of 3 units of courses from the Neuroscience Series (see below).

**PhD students are required to complete:**

- [MDSC628 Intro Computational Neuroscien\\*](#); plus
- a minimum of 3 additional units of courses from the Computational Series (see below); and
- a minimum of 6 units of courses from the Neuroscience Series (see below).

\*Medical Science 628 (Introduction to Computational Neuroscience) is expected to be completed unless approval is received from the Computational Neuroscience program oversight committee to substitute another Computational Series course.

COMPUTATIONAL SERIES			NEUROSCIENCE SERIES
BMEN515 Bioeng Methods in Sys & Physio	MATH685 Stochastic Processes	PHYS521 Non-linear Dynamics and Chaos	MDSC619.01 Cellular,MolecularNeuroscience
BMEN619 Advanced Topics in BMEN	MDSC605 (Cpsc605)InfoStoreProcBioSys	PHYS581 Computational Physics III	MDSC619.02 Sys Neuroscience & Neuropath
CPSC607 Biological Computation	MDSC689.01 Medical Imaging Techniques	PHYS605 Advanced Data Analysis	MDSC622 Neurobiology of Mental Illness
CPSC635 ImageAnalysis&ComputerVision	MDSC689.02 Adv Magnetic Resonance Imaging	PHYS619 Statistical Physics II	MDSC624 Neuroanatomy
MATH605 Differential Equations III	MDSC689.03 Adv Medical Image Processing	PHYS621 Nonlinear Dyn & Patt Formation	PSYC620 Adv Topics Brain & Cog Science
MATH661.05 Numerical Differential Eqtn's	MDSC689.11 Medical Imaging Applications	PSYC613 Signal/Syst Analy Behave Rsrch	PSYC623 Functional Neuroanatomy
MATH669.01 Wavelet Analysis	MDSC689.99 Medical Imaging Project	PSYC615 Analysis of Variance	PSYC625 Clinical Neuropsychology
MATH669.03 Mathematical Biology	MDSC755 Directed Study	PSYC617 Multivariate Data Analysis	

Note: Other course options may be available with approval from the Program Oversight Committee.

All students are expected to participate in a Computational Neuroscience journal club. Students will also be expected to attend relevant seminars and present their work at a work-in-progress seminar series during their degree.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant should make requests for [Advanced Credit](#) at the time of application, as part of the admissions process. Credit may be granted for appropriate courses to count towards the specialization with approval of the Computational Neuroscience program.

**Credit for Undergraduate Courses**

Credit will not be given for undergraduate or 500-level courses.

## Time Limit

Completion times follow the Faculty of Graduate Studies regulations (see [Time Limits](#)).

## Supervisory Assignments and Required Examinations

See requirements of home program:

- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Neuro](#)
- [PHD Neuroc](#)
- [MSCT Physi](#)
- [PHD Physic](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section.

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

#### Courses Constituting the Field of Environmental Sciences with a Physics Concentration

##### Type

Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Physics

Students must successfully complete a minimum of 48 units, to a maximum of 66 units, in Courses Constituting the Field of Environmental Science with a Concentration in Physics while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Environmental Science with a Concentration in Physics

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

Required Courses - Major with a Concentration in Physics

Earn at least 93 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 3 units - Earth 210
- 18 units - Mathematics 211 or 213; 249 or 265 or 275; 267 or 277; 376 or 375, 367, 311
- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 24 units - Physics 341, 343, 355, 397, 443, 449, 455, 561
- 6 units - Physics 375, 457, 497, 501, 507, 509, 543, 593, 599 or 663
- 3 units - Statistics 327 or Biology 315
- 15 units - Environmental Science 401, 501, 502, 503

Required Options - Major with a Concentration in Physics

Earn at least 27 credits from the following:

- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 12 units - Options

**Additional Comments:**

#### Program Sequence

##### Type

Completion Requirement

**Additional Comments:**

#### Recommended Program Sequence for the Concentration in Physics

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Minor Programs
- Embedded Certificates

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

Additional Comments:

## Overview

### General Program Information

**Office:** Science B 149

**Telephone:** 403.220.8600

**Website:** [ucalgary.ca/ensc](http://ucalgary.ca/ensc)

**Email:** [ensc@ucalgary.ca](mailto:ensc@ucalgary.ca)

The Environmental Science program is a single, four-year multidisciplinary program offered by the Faculty of Science with collaboration from the Faculty of Arts. This multidisciplinary program is flexible in scope. Students must select one of six areas of concentration: Biological Sciences, Chemistry, Geography, Geoscience, Physics, or Statistics.

For program advice, see the Program Director and/or the Undergraduate Science Centre (USC).

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

### Admission and Enrolment Limitations

Enrolment is limited in the Environmental Science program. Students may be admitted directly into the Environmental Science program. Admission will be granted for Fall Term only and will be based upon academic merit.

As space permits, a certain number of students who wish to gain admission to the second or third year of the program by transferring from other institutions or programs will be accepted. Any student requesting admission at this level must meet a competitive grade point average calculated over the most recent course work, to a maximum of 30 units.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

Additional Comments:

#### Department Regulations

##### Type

## Completion Requirement

### Additional Comments:

#### Program vs Faculty Regulations

The Environmental Science program is governed by a combination of general Faculty of Science and Faculty of Arts regulations, as well as the additional program specific regulations listed below. In cases where the regulations of the two Faculties are different, students in the Environmental Science program will follow the regulations listed in the Faculty of Science section.

It is essential for students to be familiar with all regulations and it is helpful to read [Faculty Regulations](#) first.

## Courses Constituting the Field of Environmental Science with a Concentration in Physics

### Type

#### Completion Requirement

#### Courses Constituting the Field of Environmental Science with a Concentration in Physics

Students must successfully complete a minimum of 54 units, to a maximum of 78 units, in Courses Constituting the Field of Environmental Science with a Concentration in Physics while fulfilling the Program Requirements.

#### Earn at least 54 credits from the following:

- Courses Constituting the Field of Environmental Science with a Concentration in Physics

### Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

#### Required Courses - Honours Degree with a Concentration in Physics

#### Earn at least 93 credits from the following:

- 9 units - Biology 241, 243, 313
- 3 units - Ecology 417 or 419
- 6 units - Chemistry 203 and 321
- 3 units - Earth 210
- 18 units - Mathematics 211 or 213; 249 or 265 or 275; 267 or 277; 376 or 375, 367, 311
- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 24 units - Physics 341, 343, 355, 397, 443, 449, 455, 561
- 6 units - Physics 375, 457, 497, 501, 507, 509, 543, 593, 599 or 663
- 3 units - Statistics 327 or Biology 315
- 15 units - Environmental Science 401, 501, 502, 503

#### Required Options - Honours Degree with a Concentration in Physics

#### Earn at least 27 credits from the following:

- 6 units - Environmental Science 504; or Environmental Science 505 and 3 units from the Field of Physics
- 9 units - Options from faculties other than the Faculty of Science
- 6 units - Options from the Faculty of Arts
- 6 units - Options

### Additional Comments:

## Program Sequence

## Type

Completion Requirement

## Additional Comments:

### Recommended Program Sequence for the Concentration in Physics

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

For the Honours program, see [Recommended Program Sequence](#) for Honours with the Physics Concentration.

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete an optional enhancement to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

Note: No degree combination will be allowed where both parts of the combination are in the same field of specialization (i.e. Double Major, Major-Minor, Combined Degree, Second Bachelor's Degree).

## Additional Comments:

## Overview

### General Program Information

A Graduate Specialization in Medical Imaging is offered in conjunction with the following graduate programs:

- Biomedical Engineering
- Electrical and Computer Engineering
- Medical Sciences
- Neurosciences
- Physics and Astronomy
- Psychology

The specialization is offered at the MSc and PhD level.

Location: FMC MRG 006

Program number: 403.944.8354

Email address: <mailto:medi@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/programs/medical-imaging-specialization/graduate-specialization>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization.

Admission into a graduate program that offers the Graduate Specialization in Medical Imaging and submission and approval of a written request to join the Specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Medical Imaging specialization must meet the following requirements:

- a) MSc students must take a minimum of 6 units (the core and an elective course). PhD students take at least 9 units (the core and two elective courses). PhD students previously completing the MSc specialization in Medical Imaging will be required to complete an additional 3 units (one elective course).
- b) Medical Imaging-related research thesis.
- c) Attendance and annual presentation in the [Advanced Imaging Seminar Series](#).

These requirements are in addition to the core requirements of a specific participating graduate program. In most programs, the medical imaging graduate courses would count towards graduate program elective courses. In some graduate programs, participation in the specialization may require students to take an additional graduate course or courses.

Core required course:

**Complete ALL of the following Courses:**

- MDSC689.01 - Medical Imaging Techniques

Elective courses:

**Complete ANY of the following Courses:**

- ENEL697 - Digital Image Processing  
**AND** MDSC689.02 - Advanced Magnetic Resonance Imaging  
**AND** MDSC689.03 - Advanced Medical Image Processing  
**AND** MDSC689.11 - Medical Imaging Applications  
**AND** MDSC689.99 - Medical Imaging Project
- [ENME619 Special Problems.36](#)
- Neuroscience 5850 at The University of Lethbridge
- Other Medical Imaging-related graduate courses with prior approval of specialization and graduate program

**Additional Comments:**

#### Additional Program Information

Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant should make requests for Advanced Credit at the time of application, as part of the admissions process. See Advanced Credit for further information.

## Credit For Undergraduate Courses

Credit (in the specialization) will not be given for 500-level courses.

## Time Limit, Supervisory Assignments and Required Examinations

See requirements of home program.

## Research Proposal Requirements

Research proposal must be on a Medical Imaging topic and fit into a research area broadly defined by the Specialization (see [website](#) for information).

Image Acquisition and Reconstruction - Development of algorithms suitable for accurate imaging using existing technologies (e.g., MR, CT) and emerging methods (e.g., microwaves).

Signal Processing for Information Synthesis - Development of robust strategies for the assessment of brain and other organ function via advanced signal processing.

Quantitative Imaging and Analysis - Development of software engineering approaches, validation and testing for the creation of resilient methods for quantitative imaging.

A copy of the proposal must be provided to the specialization office within 12 months of starting the program.

In programs that do not require submission of a research proposal, a suitable proposal should be developed by the student within 12 months of starting the specialization, approved by the supervisor and supervisory committee (where appropriate), and submitted to the Specialization office.

## Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

See home program. Additional funding may be available through the specialization or other University sources for well-qualified students.

## Overview

### General Program Information

#### Specializations:

- Astrophysics
- Physics
- Space Physics

The MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-master-science-course-based>.

In addition to Faculty of Graduate Studies and Faculty of Science **requirements**, the Department requires:

- A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.
- Two reference letters.

Applicants to the Master of Science program whose background does not include the equivalent of an undergraduate honours degree in the proposed area of study may require additional make-up courses. Such applicants should consult with the department regarding their admission status.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements** and the Faculty of Science requirements, the Department requires:

All students must complete three components of the Scientific Communication Skills course, [PHYS691.11 Effective Scientific Speaking](#), [PHYS691.12 Graduate Seminar](#) and [PHYS691.13 Effective Scientific Writing](#), during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

Students must complete 30 units of coursework, which will include:

##### Complete ALL of the following Courses:

- PHYS605 - Advanced Data Analysis  
**AND** PHYS609 - Advanced Classical Mechanics  
**AND** PHYS611 - Statistical Physics  
**AND** PHYS613 - Electrodynamics

##### Complete at least 1 of the following courses:

- PHYS615 - Non-Relativistic Quantum Mechanics  
**OR** PHYS617 - Relativistic Quantum Mechanics

#### Additional Comments:

Complete 15 units within the area of specialization:

*Astrophysics* – **PHYS699 Project In Physics** and 12 units selected from Astrophysics, **PHYS629 Gravitation**, **SPPH671 Physics Of The Magnetosphere**. With permission, up to 6 units of Astrophysics may be at the 500 level. If the topic is appropriate, Physics 698 may be used.

*Physics* – **PHYS699 Project In Physics** plus 6 units of Astrophysics, Physics, or Space Physics courses (these may be at the 500 level) plus 6 units of Physics courses, at the 600 level or above.

*Space Physics* – **PHYS699 Project In Physics**, **PHYS509 Plasma Physics** and 9 units selected from Space Physics or Physics related to space physics (with permission, 3 units may be at the 500 level).

#### Additional Program Information

##### Type

Completion Requirement

Additional Comments:

#### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process.

#### Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

#### Time Limit

Expected completion time is three years in a course-based program. Maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

Additional Comments:

#### Supervisory Assignments

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program.

The MSc program has a supervisory committee requirement which follows the same requirements and rules as the PhD.

#### Required Examinations

Two weeks before the comprehensive oral examination, students must write a three-hour, closed-book comprehensive examination, prepared by the Departmental Graduate Affairs Committee in collaboration with the supervisor.

#### Financial Assistance

##### Type

## Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

#### Specializations:

- Astrophysics
- Medical Physics
- Physics
- Radiation Oncology Physics
- Space Physics
- [Comp Neuro](#)
- [Medical Im](#)

The PhD MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-master-science-thesis-based>.

In addition to Faculty of Graduate Studies and Faculty of Science [requirements](#), the Department requires:

- A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.
- Two reference letters.

Applicants to the Master of Science program whose background does not include the equivalent of an undergraduate honours degree in the proposed area of study may require additional make-up courses. Such applicants should consult with the department regarding their admission status.

## Program Details

### Simple Requisites

#### Program/Course Requirements

## Type

### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:  
All students must complete three components of the Scientific Communication Skills course, **PHYS691.11 Effective Scientific Speaking**, **PHYS691.12 Graduate Seminar** and **PHYS691.13 Effective Scientific Writing**, during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

a) All students must complete the core courses:

**Earn at least 6 credits from the following:**

- PHYS605 - Advanced Data Analysis  
**OR** PHYS609 - Advanced Classical Mechanics  
**OR** PHYS611 - Statistical Physics  
**OR** PHYS613 - Electrodynamics  
**OR** PHYS615 - Non-Relativistic Quantum Mechanics  
**OR** PHYS617 - Relativistic Quantum Mechanics

Note: Only one of Physics 615 and 617 can be taken as a core course.

### Additional Comments:

b) In addition, students must complete course requirements for their specialization as described below.

*Astrophysics, Physics, and Space Physics*

- Elective courses: 6 units at the 500 or 600 level, as approved by the Graduate Program Director.

*Medical Physics*

- Specialization courses: **MDPH623 Radiotherapy Physics I** and **MDPH625 Radiation Oncology Physics**; and
- Elective course: 3 units at the 500 or 600 level, as approved by the Graduate Program Director.

*Radiation Oncology Physics*

- Specialization courses: **MDPH623 Radiotherapy Physics I**, **MDPH625 Radiation Oncology Physics**, **MDPH633 Radiation Oncology Physics Lab**, **MDPH637 Anatomy & Statistics For MdPh**, **MDPH638 Imaging Rad'n Oncology Phys**, **MDPH639 Radiobio & Rad Safety for MdPh**; and
- Clinical rotation: **MDPH632 Clin Rotate Radiation OncoPhys**

### Additional Requirements

## Type

### Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process.

## Credit for Undergraduate Courses

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

## Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is two years for full-time students in a thesis Master's program.

Maximum completion time is four years.

## Supervisory Assignments and Thesis Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program.

The MSc program has a supervisory committee requirement which follows the same requirements and rules as the PhD.

## Thesis Examinations

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The thesis examination is open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://www.ucalgary.ca/rop/>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://www.ucalgary.ca/future-students/graduate/explore-programs/radiation-oncology-physics-certificate-course-based>.

In addition to Faculty of Graduate Studies' admission [requirements](#), and Faculty of Science requirements, the Department requires:

- a) A University of Calgary Honours background in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- b) For some applicants, a satisfactory score on the Advanced Physics Graduate Record Examination.
- c) Two reference letters.

In addition, applicants must possess a PhD in Physics, Medical Physics, Biophysics, or Biomedical Engineering. Applicants with PhDs in sciences other than those listed above may consult with the department regarding possible admission. A minimum GPA of 3.50 over an applicant's last 60 units of course work is required before an applicant may be considered for admission; however, exceptional students with extenuating circumstances may be considered.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and Faculty of Science requirements, the Department requires:

19.5 units consisting of:

**Complete ALL of the following Courses:**

- MDPH623 - Radiotherapy Physics I  
**AND** MDPH625 - Radiation Oncology Physics  
**AND** MDPH633 - Radiation Oncology Physics Lab  
**AND** MDPH637 - Anatomy and Statistics for Medical Physicists  
**AND** MDPH638 - Imaging for Radiation Oncology Physics  
**AND** MDPH639 - Radiobiology and Radiation Safety for Medical Physicists  
**AND** MDPH632 - Clinical Rotation in Radiation Oncology Physics

The Fall schedule consists of MDPH 623, 638 and 639.

The Winter schedule consists of MDPH 625, 632, 633, 637 and Ethics and Errors (offered not for credit)

No substitutions accepted.

Graduation requires successful completion of all required courses with a minimum grade of "B".

#### Additional Comments:

Regular attendance at Radiation Oncology Rounds, Grand Rounds and non-credit training sessions such as the Ethics and Errors course (winter term).

#### Additional Requirements

##### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

Advanced Credit for a maximum of 3 units may be given.

## Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No credit will be given for undergraduate-level courses.

## Time Limit

Expected completion time is 8 months (two terms) for the Postdoctoral Certificate program.

### Supervisory Assignments

#### Type

Completion Requirement

#### Additional Comments:

All students will be supervised by the Postdoctoral certificate co-ordinator or delegate co-ordinator for the duration of their program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is not available for this program.

## Overview

### General Program Information

\*The Postdoctoral Diploma is a continuous program with no scheduled break.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://www.ucalgary.ca/rop/>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <https://www.ucalgary.ca/future-students/graduate/explore-programs/radiation-oncology-physics-diploma-course-based>.

## UCalgary

In addition to Faculty of Graduate Studies' admission [requirements](#), and Faculty of Science requirements, the Department requires:

- a) A University of Calgary Honours background in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.
- b) For some applicants, a satisfactory score on the Advanced Physics Graduate Record Examination.
- c) Two reference letters.

In addition, applicants must possess a PhD from a CAMPEP accredited graduate program or equivalent and an appointment as an Associate Medical Physicist by the Alberta Health Services.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies ([see regulations](#)) and Faculty of Science requirements, the Department requires:

18 units consisting of:

##### Complete ALL of the following Courses:

- MDPH711 - Clinical Competency I  
**AND** MDPH712 - Clinical Competency II  
**AND** MDPH721 - Clinical Projects I  
**AND** MDPH722 - Clinical Projects II  
**AND** MDPH731 - Radiation Oncology Physics Tutorials  
**AND** MDPH741 - Treatment Planning

No substitutions accepted.

Graduation requires successful completion of all required courses with a minimum grade of "B".

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

Advanced Credit is not given.

### Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate-level courses.

### Time Limit

Expected completion time is two years for the Postdoctoral Diploma program.

### Supervisory Assignments

#### Type

Completion Requirement

#### Additional Comments:

Registrants are supervised by the Director of Medical Physics or designate, Tom Baker Cancer Centre.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is not available for this program.

## Overview

### General Program Information

#### Specializations:

- Astrophysics
- Medical Physics
- Physics
- Radiation Oncology Physics
- Space Physics
- Comp Neuro
- Medical Im

The PhD MSc degree may be completed on a part-time basis with approval of the Department.

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <https://science.ucalgary.ca/physics-astronomy>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/physics-astronomy-doctor-philosophy-thesis-based>.

In addition to Faculty of Graduate Studies' admission requirements, and Faculty of Science requirements, the Department requires:

- a) A University of Calgary Honours undergraduate degree in Physics, Engineering Physics, Astronomy/Astrophysics, or equivalent.

b) Some supervisors may require a satisfactory score on the Advanced Physics Graduate Record Examination. Applicants should discuss this requirement with their potential supervisor or the Graduate Program Director.

c) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Science requirements, the Department requires:

- a) A minimum of 6 units at the 600 level or higher for students who hold a master's degree.
- b) A minimum of 18 units at the 600 level or higher for those entering the doctoral program without a master's degree.
- c) For students specializing in **Radiation Oncology Physics** who do not hold an accredited MSc degree in Radiation Oncology Physics:
  - [MDPH623 Radiotherapy Physics I](#), [MDPH625 Radiation Oncology Physics](#), [MDPH632 Clin Rotate Radiation OncoPhys](#), [MDPH633 Radiation Oncology Physics Lab](#), [MDPH637 Anatomy & Statistics For MdPh](#), [MDPH638 Imaging Rad'n Oncology Phys](#) and [MDPH639 Radiobio & Rad Safety for MdPh](#); and
  - 6 units from [PHYS609 Advanced Classical Mechanics](#), [PHYS611 Statistical Physics](#), [PHYS613 Electrodynamics](#), [PHYS615 Non-Relativistic Quantum Mech](#), [PHYS617 Relativistic Quantum Mechanics](#) (only one of Physics 615 and 617 can be taken for credit).

All students must complete three components of the Scientific Communication Skills course, [PHYS691.11 Effective Scientific Speaking](#), [PHYS691.12 Graduate Seminar](#) and [PHYS691.13 Effective Scientific Writing](#), during their graduate program. Students may be encouraged to repeat components of Physics 691 in order to improve their communication skills.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process.

### Credit for Undergraduate Courses

Credit for a maximum of 6 units may be given for courses taken at the 500 level.

### Flexible Grade Option (CG Grade)

Students admitted to the PHAS Graduate Program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Time Limit

Expected completion time is four years in a doctoral program. Maximum completion time is six years.

### Supervisory Assignments and Thesis Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

Newly admitted students will normally be supervised by the Graduate Director or an interim supervisor in their field of interest during the first 8 months in program. During this time students will complete all of the course work and have an opportunity to become acquainted with the research of potential supervisors within the department. Students are responsible for securing a permanent supervisor from among the researchers in the department within the first four months in program.

## Candidacy

Doctoral students must complete a written thesis proposal and an oral Field of Study examination. For complete details of the candidacy requirements, see [https://phas.ucalgary.ca/graduate/programs/doctoral\\_phd\\_thesis\\_based/candidacy\\_exam](https://phas.ucalgary.ca/graduate/programs/doctoral_phd_thesis_based/candidacy_exam).

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

The thesis examination is open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5385

**Fax:** 403.289.3331

**Website:** [science.ucalgary.ca/physics-astronomy](https://science.ucalgary.ca/physics-astronomy)

## Admissions

### Program Admissions Information

Students may add a minor to their program through the [Student Centre](#).

## Program Details

### Simple Requisites

#### Faculty of Science Minor Program Regulations

##### Type

Completion Requirement

#### Faculty of Science Minor Program Regulations

For Minor Program regulations, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Physics

##### Type

Completion Requirement

#### Courses Constituting the Field of Physics

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Physics

**Additional Comments:**

#### Required Courses - Minor Program

##### Type

Completion Requirement

#### Required Courses - Minor Program

**Earn at least 6 credits from the following:**

- 6 units Physics 211 or 221 or 227; and Physics 223 or 229

#### Required Options - Minor Program

Complete 24 units at the 300 level or higher in the Field of Physics

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Physics

**Additional Comments:**

## Overview

### General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5385

## Admissions

### Program Admissions Information

For Faculty of Science admission information see [3.2 Admission](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Science Graduation Requirements

For Major Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Major Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: [3. Faculty of Science Regulations](#).

#### Additional Comments:

#### Department Regulations

##### Type

Completion Requirement

#### Additional Comments:

##### Department vs. Faculty Regulations

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the [Faculty Regulations](#) first.

Students should consult Academic Requirements in their [Student Centre](#) periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the Undergraduate Science Centre (USC) at all stages of their program.

##### Double Major and Major/Minor Combinations Submit

A Major in either Physics or Astrophysics cannot be combined with either a Minor in Physics or Astrophysics.

Students may not complete more than one Minor offered by the Department of Physics and Astronomy.

Students may complete Physics and Astrophysics as a Double Major program.

#### Courses Constituting the Field of Physics

##### Type

Completion Requirement

#### Courses Constituting the Field of Physics

Students must successfully complete a minimum of 51 units to a maximum of 66 units in Courses Constituting the Field of Physics while fulfilling the Program Requirements.

**Earn at least 51 credits from the following:**

- Courses Constituting the Field of Physics

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Required Courses - Major Program

**Earn at least 75 credits from the following:**

- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 249 or 265 or 275
- 3 units - Mathematics 267 or 277
- 3 units - Computer Science 217 or Data Science 211
- 3 units - Chemistry 201 or 209 or 211 or Biology 241
- 3 units - Chemistry 203 or 213 or Biology 205 or Computer Science 219 or Astrophysics 305
- 39 units - Physics 341, 343, 355, 375, 381, 397, 443, 449, 455, 457, 497, 501, and 599 or 598
- 3 units - Mathematics 311 or 313
- 6 units - Mathematics 375 or 376, and Mathematics 367 or 377
- 3 units - Physics 435 or Mathematics 433

#### Required Options - Major Program

**Earn at least 45 credits from the following:**

- 3 units - 400- or 500-level Physics option
- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 6 units - Science options
- 3 units - Non-Major Field Requirement: Options that are not in the Field of Physics
- 15 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

#### Additional Comments:

#### Recommended Program Sequence for the BSc in Physics

There is a **Recommended Course Sequence** for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

# UCalgary

Taking courses in the order of the **Recommended Course Sequence** will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete an optional enhancement to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

**Department Office:** Science B 605

**Telephone:** 403.220.5385

**Fax:** 403.289.3331

**Website:** [science.ucalgary.ca/physics-astronomy](http://science.ucalgary.ca/physics-astronomy)

## Admissions

Program Admissions Information

For Faculty of Science admission information see **3.2 Admission.**

## Program Details

Simple Requisites

### Faculty Requirements

#### Type

Completion Requirement

#### Faculty of Science Graduation Requirements

For Honours Degree requirements, or if completing this program as a Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Science - Honours Degree Requirements
- Faculty of Science - Second Degree Programs

For other regulations related to the Faculty of Science, see: **3. Faculty of Science Regulations.**

**Additional Comments:**

**Department Regulations**

**Type**

Completion Requirement

**Additional Comments:**

**Department vs. Faculty Regulations**

Programs in the Department of Biological Sciences are governed by a combination of general Faculty of Science regulations and the additional program specific regulations listed below.

It is essential for students to be familiar with both sets of regulations. It is helpful to read the **Faculty Regulations** first.

Students should consult Academic Requirements in their **Student Centre** periodically to ensure that requirements are being met. Also students are strongly urged to consult the Department and the Undergraduate Science Centre (USC) at all stages of their program.

**Double Major and Major/Minor Combinations Submit**

A Major in either Physics or Astrophysics cannot be combined with either a Minor in Physics or Astrophysics.

Students may not complete more than one Minor offered by the Department of Physics and Astronomy.

Students may complete Physics and Astrophysics as a Double Major program.

**Courses Constituting the Field of Physics**

**Type**

Completion Requirement

**Courses Constituting the Field of Physics**

Students must successfully complete a minimum of 63 units to a maximum of 78 units in Courses Constituting the Field of Physics while fulfilling the Program Requirements.

**Earn at least 63 credits from the following:**

- All courses labelled Physics (PHYS) except Physics 271, 303 or 371

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Required Courses - Honours Program**

**Earn at least 90 credits from the following:**

- 3 units - Physics 211 or 221 or 227
- 3 units - Physics 229
- 3 units - Computer Science 217 or Data Science 211
- 3 units - Chemistry 201 or 209 or 211 or Biology 241
- 3 units - Chemistry 203 or 213 or Biology 205 or Computer Science 219 or Astrophysics 305
- 3 units - Mathematics 211 or 213
- 3 units - Mathematics 265 or 275 or 249
- 3 units - Mathematics 267 or 277
- 3 units - Mathematics 311 or 313
- 6 units - Mathematics 375 or 376, and Mathematics 367 or 377

- 3 units - Physics 435 or Mathematics 433
- 54 units - Physics 341, 343, 355, 375, 381, 397, 443, 449, 451, 455, 457, 481, 497, 501, 543, 597, and 598

#### Required Options - Honours Program

##### Earn at least 30 credits from the following:

- 18 units - Breadth Requirement: Options from faculties other than the Faculty of Science, excluding courses in Table I. Of these, at least 6 units must be from the Faculty of Arts. Science 311 may be counted among the courses from other faculties.
- 3 units - Science options
- 9 units - Options

#### Additional Comments:

#### Program Sequence

##### Type

Completion Requirement

##### Additional Comments:

##### Recommended Program Sequence for the BSc Honours in Physics

There is a [Recommended Course Sequence](#) for this program. This sequence describes both the recommended order in which courses should be taken and the recommended course(s) in instances where multiple courses may fulfill a degree requirement. All possible courses that may fulfill degree requirements are found in the Required Courses listed above.

Taking courses in the order of the [Recommended Course Sequence](#) will ensure students can complete their program in a timely fashion. The time to complete a program may be lengthened if students choose to complete their requirements in an alternate order.

#### Degree Options

##### Type

Completion Requirement

##### Degree Options

To complete an optional enhancement to this degree program, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Science - Combined and Concurrent Degree Programs with Other Faculties
- Faculty of Science - Combined Degree Programs Within the Faculty of Science
- Faculty of Science - Double Major and Double Honours Degree Programs
- Faculty of Science - Co-operative Education Programs
- Faculty of Science - Minor Programs
- Embedded Certificates
- Arts and Science Honours Academy

#### Additional Comments:

# Political Science; Department of Department

The Department of Political Science is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Political Science](#).

## Programs

### Overview

General Program Information

### Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

International Indigenous Studies

Website: [arts.ucalgary.ca/international-indigenous-studies](https://arts.ucalgary.ca/international-indigenous-studies)

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

The Department offers an interdisciplinary major in International Indigenous Studies. The BA (International Indigenous Studies) focuses on the culture, history, politics, and knowledge traditions of Indigenous peoples of Turtle Island and around the world. Students will deploy methods and tools from a wide variety of academic disciplines as they engage with issues of importance to Indigenous peoples.

## Introduction

The Department of Political Science offers an interdisciplinary major in International Indigenous Studies. The BA (International Indigenous Studies) focuses on the culture, history, politics, and knowledge traditions of Indigenous peoples of Turtle Island and around the world. Students will deploy methods and tools from a wide variety of academic disciplines as they engage with issues of importance to Indigenous peoples.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (International Indigenous Studies) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

Simple Requisites

<b>Faculty of Arts Requirements</b>
<b>Type</b>
Completion Requirement
Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: **3. Faculty of Arts Regulations.**

**Additional Comments:**

## Courses Constituting the Field of International Indigenous Studies

**Type**

Completion Requirement

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of International Indigenous Studies while fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of International Indigenous Studies

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

### Core Courses

24 units including:

- 15 units Indigenous Studies 201, 303, 345, 407, 415;
- 6 additional units from the Core Courses in Courses Constituting the Field of International Indigenous Studies, excluding the courses in (a) above;
- 3 units Language Requirement: Indigenous Languages 301.

**Earn at least 24 credits from the following:**

- A. Core Courses: Anthropology 346; English 376; History 345, 443; Indigenous Studies 201, 303, 345, 407, 415; Indigenous Languages 301; Political Science 408; Sociology 307

### Supporting Courses

An additional 24 units from Courses Constituting the Field of International Indigenous Studies, including:

- 6 units from Canadian Focus;
- 9 units from International Focus;
- At least 6 units used to fulfill the Supporting Courses requirement must be at the 400 level or above.

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of International Indigenous Studies

**Additional Comments:**

## Degree Options

## Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty Requirements

#### Type

Completion Requirement

### Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

### Courses Constituting the Field of International Indigenous Studies

Type

## Completion Requirement

### Courses Constituting the Field of International Indigenous Studies

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of International Indigenous Studies while fulfilling the Program Requirements.

#### Complete ALL of the following Requirement Sets:

- Courses Constituting the Field of International Indigenous Studies

## Additional Comments:

## Program Requirements

### Type

#### Completion Requirement

### Program Requirements

#### Earn at least 6 credits from the following:

- Core Courses: 6 units Indigenous Studies 201, 407

### Supporting Courses

#### Earn at least 24 credits from the following:

- Courses Constituting the Field of International Indigenous Studies

## Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Political Science offers an Interdisciplinary Major in International Relations. The BA (International Relations) is designed to expose students to the diversity of approaches to the study of international relations while also providing an opportunity for individualized programs that reflect student interests. The program is structured around a common core set of courses, a regional cluster focused on a specific area of the world, and a thematic specialization focused on major approaches to the study of international relations.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Political Science) Program, the BA (International Relations) Program or the BA (International Indigenous Studies) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission](#)

Requirements of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of International Relations

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of International Relations while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of International Relations

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Core Courses

##### Earn at least 24 credits from the following:

- 24 units Anthropology 203, Economics 201, 203, Geography 254 or 352, History 307, Political Science 381, International Relations 301 and 501

#### Thematic Cluster

12 units, of which at least 6 units must be at the 400 level or above, from a single one of the three thematic clusters: International Political Economy, Security and Strategy, or International Institutions and Governance (refer to Courses Constituting the Field of International Relations).

##### Earn at least 12 credits from the following:

- Courses Constituting the Field of International Relations

#### Regional Cluster

12 units, of which at least 6 units must be at the 400 level or above, from a single one of the six regional clusters: North America; Latin America; Europe; Asia/Pacific; Middle East and North Africa; and Africa (refer to Courses Constituting the Field of International Relations).

**Earn at least 12 credits from the following:**

- Courses Constituting the Field of International Relations

#### Language Requirement

12 units, either 12 units in a single language other than English or 6 units in each of two languages other than English. It is recommended that students select a language or languages related to their chosen regional cluster.

#### Statistics Requirement

**Earn at least 3 credits from the following:**

- 3 units from Political Science 399, Statistics 205, 213

#### Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

#### Additional Comments:

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

## Overview

### General Program Information

**Program office:** Faculty of Arts, Arts Students' Centre, SS102

**Website:** [ucalgary.ca/pluralism/certificate](http://ucalgary.ca/pluralism/certificate)

**Program Co-ordinator email:** [pluralismcertificate@ucalgary.ca](mailto:pluralismcertificate@ucalgary.ca)

For advising, students should consult with the certificate's Program Co-ordinator or a Program Advisor in the Arts Students' Centre.

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the certificate program through their [Student Centre](#). Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate. Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

## Program Details

### Simple Requisites

#### Completion Requirement

##### Type

Completion Requirement

Completion Requirement

##### Complete ALL of the following Requirement Sets:

- Embedded Certificate Completion Requirement

#### Additional Comments:

#### Program Requirement

##### Type

Completion Requirement

Core Courses

##### Earn at least 6 credits from the following:

- Core courses 6 units: Pluralism 201 and Pluralism 401

Pluralism and Global Citizenship Electives

An additional 12 units from the Field of Pluralism and Global Citizenship.

##### Earn at least 12 credits from the following:

- Field of Pluralism and Global Citizenship

Students may count 6 units of language study in the School of Languages, Linguistics, Literatures, and Cultures among their electives.

Students can seek permission from the program co-ordinator to count toward the certificate requirements a pertinent course not included on the list of electives. This applies to a topics course that addresses a relevant topic.

Students are encouraged to participate in international learning opportunities and can apply to the program co-ordinator to count courses completed in those settings toward the certificate requirements.

#### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Political Science

##### Type

Completion Requirement

Courses Constituting the Field of Political Science

**Enroll in the following Requirement Sets:**

- Courses Constituting the Field of Political Science

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Program Requirements

Students must successfully complete a minimum of 30 units to a maximum of 36 units in Courses Constituting the Field of Political Science with at least 18 units at the 300 level or above.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Political Science

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Political Science offers courses in the principal fields of the discipline: Canadian government, political theory, comparative politics, and international relations. The BA (Political Science) program is designed to expose students to each of these fields, as well as to encourage an appreciation of the broader themes and issues that cut across them (see **Courses Constituting the Field of Political Science** for list of categories).

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Political Science) Program, the BA (International Relations) Program or the BA (International Indigenous Studies) Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar. Annual application deadlines are found in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

## Program Details

Simple Requisites

### Faculty Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: **3. Faculty of Arts Regulations**.

#### Additional Comments:

### Courses Constituting the Field of Political Science

#### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Political Science while fulfilling the Program Requirements.

**Earn at least 45 credits from the following:**

- Courses Constituting the Field of Political Science

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 12 credits from the following:**

- Introduction: 6 units in Political Science at the 200 level
- Canadian Politics: 3 units Political Science 321
- Research Methods: 3 units Political Science 397

Major-Field - Required Options

33 units from Courses Constituting the Field of Political Science, which must include any three of the following:

- 6 units Political Science 326 and 328.
- 3 units Political Science 359 and an additional 3 units in "*Comparative Politics*" at the 300 level or above.
- 3 units Political Science 381 and an additional 3 units in "*International Relations*" at the 300 level or above.
- 3 units Political Science 398 or 399.

**Earn at least 33 credits from the following:**

- Courses Constituting the Field of Political Science
- **Advanced-Level Political Science** - Inclusive of the courses used to fulfill this requirement, at least 12 units must be at the 400 level or above, including at least 3 units at the 500 level.

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Honours Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Political Science offers courses in the principal fields of the discipline: Canadian government, political theory, comparative politics, and international relations. The BA (Political Science) program is designed to expose students to each of these fields, as well as to encourage an appreciation of the broader themes and issues that cut across them (see **Courses Constituting the Field of Political Science** for list of categories).

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Political Science) Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar. Annual application deadlines are found in **A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents**.

### Admission to Honours

The Faculty of Arts procedures for Admission to BA Political Science (Honours) established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework. Students wishing to be considered for admission into BA Political Science (Honours) program must have completed at least 30 units. The GPA for admission and continuation is typically higher than the 3.30 minimum set by the Faculty. Please see Department website for current admission and continuation GPA for Honours. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

## Program Details

Simple Requisites

### Faculty Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: **3. Faculty of Arts Regulations**.

**Additional Comments:**

**Courses Constituting the Field of Political Science**

**Type**

**Completion Requirement**

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Political Science while fulfilling the Program Requirements.

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Political Science

**Additional Comments:**

**Program Requirements**

**Type**

**Completion Requirement**

**Major-Field - Specified Courses**

**Earn at least 6 credits from the following:**

- Introduction: 6 units in Political Science at the 200 level
- Canadian Politics: 3 units Political Science 321
- Research Methods: 9 units Political Science 397, 398 and 399
- Honours Seminar and Thesis: 6 units Political Science 590 and 591

A grade of "B+" or higher in both Political Science 590 and 591 is required for graduation with the BA Honours degree.

**Major-Field - Required Options**

36 units from Courses Constituting the Field of Political Science, including:

- 6 units Political Science 326 and 328.
- 3 units Political Science 359 and an additional 3 units in "Comparative Politics" at the 300 level or above.
- 3 units Political Science 381 and an additional 3 units in "International Relations" at the 300 level or above.

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Political Science
- **Advanced-Level Political Science** - Inclusive of the courses used to fulfill the (a)-(c) above, at least 9 units must be at the 400 level or above, including at least 9 units at the 500 level.

**Language**

Complete 6 units in a Language other than English.

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

**Degree Options**

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

### General Program Information

The MA, course-based is a continuous program with no scheduled break. The MA programs are offered as full-time programs only.

Both course-based and thesis-based MA programs include significant independent research, are SSHRC-eligible, and are appropriate for students who intend to pursue doctoral studies.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/political-science-ma-course>.

In addition to the Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- A minimum grade point average of 3.40 on a four-point scale over the last 60 units taken in the applicant's undergraduate program.
- Normally a four-year BA in Political Science or a strong background in Political Science of at least 30 units in Political Science courses. Special consideration may be given to those who have not achieved this background.
- All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.
- Two reference letters.
- A statement of research interests.
- Sample of written work, preferably a paper submitted for a Political Science course.
- For applicants to the thesis-based Master of Arts, email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

**Program/Course Requirements**

#### Type

Completion Requirement

#### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department normally requires:

A minimum of 24 units of coursework, which must include the following:

- at least 18 units of graduate courses in Political Science;
- at least 6 units and no more than 9 units must be in the student's Primary Field (one of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
- a maximum of 6 units as reading courses;
- [POLI697 Major Research Paper](#) (Major research paper of maximum 9,000 words, exclusive of notes and bibliography);
- [POLI691 Quantitative Analysis In Poli](#) (see Advanced Credit).

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

### Flexible Grade Option (CG Grade)

The department of Political Science will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Applicants with knowledge of research methods equivalent to [POLI399 Quantitative Research Methods](#) may be given a course exemption in [POLI691 Quantitative Analysis In Poli](#). Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

### Time Limit

Expected completion time is one year for the course-based MA program. Maximum completion time is six years.

#### Supervisory Assignments

##### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

A Supervisor should normally be appointed by January 15th of the first year of registration.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

The MA program is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/political-science-ma-thesis](http://grad.ucalgary.ca/future-students/explore-programs/political-science-ma-thesis).

In addition to the Faculties of Graduate Studies and Arts [requirements](#), the Department requires:

- a) A minimum grade point average of 3.40 on a four-point scale over the last 60 units taken in the applicant's undergraduate program.
- b) Normally a four-year BA in Political Science or a strong background in Political Science of at least 30 units in Political Science courses. Special consideration may be given to those who have not achieved this background.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) Two reference letters.
- e) A statement of research interests.
- f) Sample of written work, preferably a paper submitted for a Political Science course.
- g) For applicants to the thesis-based Master of Arts, email confirmation from a potential supervisor who is interested in supervising the student's work is required.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

#### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Department normally requires the following:

a) A minimum of 15 units of coursework, which must include the following:

- at least 9 units of graduate courses in Political Science;
- at least 6 units and no more than 9 units must be in the student's Primary Field (one of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
- a maximum of 6 units as reading courses;
- **POLI691 Quantitative Analysis In Poli** (see Advanced Credit);
- and up to 3 units of graduate courses in any area;

b) A written thesis (maximum 30,000 words).

c) Thesis Oral Examination.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

### Flexible Grade Option (CG Grade)

The department of Political Science will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Course

Applicants with knowledge of research methods equivalent to **POLI399 Quantitative Research Methods** may be given a course exemption in **POLI691 Quantitative Analysis In Poli**. Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

### Time Limit

Expected completion time is two years for the thesis-based MA program. Maximum completion time is four years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An incoming student for the thesis-based program must have a proof of agreement to supervise from one or more faculty

members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee (if applicable) must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

### General Program Information

The PhD program is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [poli.ucalgary.ca](http://poli.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications is available on the Future Students website: [grad.ucalgary.ca/future-students/explore-programs/political-science-phd](http://grad.ucalgary.ca/future-students/explore-programs/political-science-phd).

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- a) A minimum grade point average of 3.70 on a four-point scale over a Master's degree.
- b) Normally a Master of Arts in Political Science or a strong background in Political Science. Special consideration may be given to those who have not achieved this background.
- c) All students whose primary language is not English are required to take a language proficiency test: TOEFL (Internet-based) with a minimum score of 105; IELTS with a minimum score of 7.5; a CAEL score of 70 with no section less than 70; or a PTE with a minimum score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- d) Two reference letters.
- e) A statement of research interests.

f) Sample of written work, preferably a paper submitted for a Political Science course.

g) Email confirmation from a potential supervisor who is interested in supervising the student's work.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department normally requires:

a) A minimum of 18 units of coursework, which must include::

- at least 12 units of graduate courses in Political Science;
- at least 6 units must be in the student's chosen Primary Field and at least 6 units must be in the student's chosen Secondary Field (Primary and Secondary Fields will consist of any two of Canadian Politics, Comparative Politics, Indigenous Politics, International Relations, or Political Thought);
- a maximum of 6 units as reading courses;
- **POLI691 Quantitative Analysis In Poli** (see Advanced Credit);
- and up to 3 units of graduate courses in any area.

b) Field of Study Written Examinations.

c) Field of Study Oral Examination.

d) Thesis Proposal and Meeting.

e) Language Requirement (if applicable).

f) Written Thesis.

g) Thesis Oral Examination.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma.

If graduate-level courses are taken as post-BA courses, the Graduate Program Director may allow the student to claim up to 6 units at our graduate level.

### Flexible Grade Option (CG Grade)

The department of Political Science will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Political Science Graduate Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Applicants with knowledge of research methods equivalent to **POLI399 Quantitative Research Methods** may be given a course exemption in **POLI691 Quantitative Analysis In Poli**. Course exemption exempts students from taking this course, but they are still required to complete the total number of units required for their degree. Applicants must make course exemption requests as part of the admission process.

## Time Limit

Expected completion time is four years for the PhD program. Maximum completion time is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An incoming student must have a proof of agreement to supervise from one or more faculty members in the student's proposed area of thesis research. Admission will not be granted without proof that adequate supervision is available during the applicant's studies. The selection of an eligible Permanent Supervisor is made by mutual agreement between the student, the faculty member, and the Graduate Program Director. A permanent Supervisor should normally be appointed by the end of April of the first year of registration. At the time of appointment, the Permanent Supervisor should be currently active in research in an area related to the student's interest.

The Supervisory Committee should be appointed as quickly as possible but no later than three months after the appointment of the Permanent Supervisor.

### Research Proposal

Doctoral students must complete a written Thesis Proposal, which is approved by their Supervisory Committee in a Thesis Proposal Meeting. For more information, see [poli.ucalgary.ca/graduate/current-program-rules-policies](https://poli.ucalgary.ca/graduate/current-program-rules-policies).

### Doctoral Field of Study Examinations

Political Science doctoral students must successfully complete two Field of Study (FoS) written examinations: (i) one written FoS examination in their chosen Primary Field; and, (ii) a second written FoS examination in their chosen Secondary Field. In addition, students must successfully complete a single oral FoS examination which treats both their Primary and Secondary Fields. For more information, see: <https://arts.ucalgary.ca/political-science/current-students/graduate/phd-program-requirements/phd-candidacy>.

### Thesis Examination

#### *Scheduling of the Examination*

All members of the Supervisory Committee (if applicable) must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships must submit their applications to the Department by January 15.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/political-science](https://arts.ucalgary.ca/political-science)

Security Studies:

Email: [ssminor@ucalgary.ca](mailto:ssminor@ucalgary.ca)

Website: <http://idp.ucalgary.ca/ssminor>

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Department of Political Science administers the Minor in Security Studies. Its interdisciplinary structure allows students to explore the multiple and interrelated dimensions of security through a variety of theoretical lenses, and across a range of geographical and historical contexts. The Minor will be of particular interest to students wishing to pursue advanced study in the Field or to those seeking employment in the security sector.

## Admissions

Program Admissions Information

The Minor in Security Studies cannot be taken in conjunction with minors in History or Political Science.

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirement

Type

Completion Requirement

Faculty of Arts Graduation Requirement

Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

Additional Comments:

### Courses Constituting the Field of Security Studies

Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of Security Studies while fulfilling the Program Requirements.

Earn at least 30 credits from the following:

- Courses Constituting the Field of Security Studies

Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

##### Specified Courses - Minor Program

Earn at least 27 credits from the following:

- Politics of Security: 9 units from Political Science 381, 439, 455, 470, 481, 487, 491, 523, 575, 585
- History of Security: 9 units from History 202, 333, 383, 471, 490, 530, 545, 547
- Critical Security: 9 units from Sociology 325, 375, 421, 425; Anthropology 343, 467; Development Studies 201; Computer Science 329, 418; Geography 426, 432, 456, 530; Philosophy 314; Religious Studies 349, 367.

##### Required Options - Minor Program

3 additional units from Courses Constituting the Field of Security Studies.

Earn at least 3 credits from the following:

- Courses Constituting the Field of Security Studies

Additional Comments:

## Psychology; Department of Department

The Department of Psychology is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Psychology](#).

## Programs

### Overview

#### General Program Information

A Graduate Specialization in Medical Imaging is offered in conjunction with the following graduate programs:

- Biomedical Engineering
- Electrical and Computer Engineering
- Medical Sciences
- Neurosciences
- Physics and Astronomy
- Psychology

The specialization is offered at the MSc and PhD level.

Location: FMC MRG 006

Program number: 403.944.8354

Email address: <mailto:medi@ucalgary.ca>

Web page URL: <https://cumming.ucalgary.ca/programs/medical-imaging-specialization/graduate-specialization>

## Admissions

### Program Admissions Information

Students must first apply to a graduate program offering the specialization.

Admission into a graduate program that offers the Graduate Specialization in Medical Imaging and submission and approval of a written request to join the Specialization. The program is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to meeting the requirements of the Faculty of Graduate Studies ([see regulations](#)) and the home program, students in the Medical Imaging specialization must meet the following requirements:

- MSc students must take a minimum of 6 units (the core and an elective course). PhD students take at least 9 units (the core and two elective courses). PhD students previously completing the MSc specialization in Medical Imaging will be required to complete an additional 3 units (one elective course).
- Medical Imaging-related research thesis.
- Attendance and annual presentation in the [Advanced Imaging Seminar Series](#).

These requirements are in addition to the core requirements of a specific participating graduate program. In most programs, the medical imaging graduate courses would count towards graduate program elective courses. In some graduate programs, participation in the specialization may require students to take an additional graduate course or courses.

Core required course:

##### Complete ALL of the following Courses:

- MDSC689.01 - Medical Imaging Techniques

Elective courses:

##### Complete ANY of the following Courses:

- ENEL697 - Digital Image Processing  
**AND** MDSC689.02 - Advanced Magnetic Resonance Imaging  
**AND** MDSC689.03 - Advanced Medical Image Processing  
**AND** MDSC689.11 - Medical Imaging Applications  
**AND** MDSC689.99 - Medical Imaging Project
- [ENME619 Special Problems.36](#)
- Neuroscience 5850 at The University of Lethbridge
- Other Medical Imaging-related graduate courses with prior approval of specialization and graduate program

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant should make requests for Advanced Credit at the time of application, as part of the admissions process. See Advanced Credit for further information.

### Credit For Undergraduate Courses

Credit (in the specialization) will not be given for 500-level courses.

### Time Limit, Supervisory Assignments and Required Examinations

See requirements of home program.

### Research Proposal Requirements

Research proposal must be on a Medical Imaging topic and fit into a research area broadly defined by the Specialization (see website for information).

Image Acquisition and Reconstruction - Development of algorithms suitable for accurate imaging using existing technologies (e.g., MR, CT) and emerging methods (e.g., microwaves).

Signal Processing for Information Synthesis - Development of robust strategies for the assessment of brain and other organ function via advanced signal processing.

Quantitative Imaging and Analysis - Development of software engineering approaches, validation and testing for the creation of resilient methods for quantitative imaging.

A copy of the proposal must be provided to the specialization office within 12 months of starting the program.

In programs that do not require submission of a research proposal, a suitable proposal should be developed by the student within 12 months of starting the specialization, approved by the supervisor and supervisory committee (where appropriate), and submitted to the Specialization office.

### Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

See home program. Additional funding may be available through the specialization or other University sources for well-qualified students.

## Overview

### General Program Information

**Program office:** Faculty of Arts, Arts Students' Centre, SS102

**Website:** [ucalgary.ca/mentalhealth/education/certificate](http://ucalgary.ca/mentalhealth/education/certificate)

**Program Co-ordinator email:** [wellcertificate@ucalgary.ca](mailto:wellcertificate@ucalgary.ca)

For advising, students should consult with the certificate's Program Co-ordinator or a Program Advisor in the Arts Students' Centre.

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the certificate program through their **Student Centre**. Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate. Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

## Program Details

### Simple Requisites

#### Completion Requirement

##### Type

Completion Requirement

#### Completion Requirement

##### Complete ALL of the following Requirement Sets:

- Embedded Certificate Completion Requirement

#### Additional Comments:

#### Program Requirement

##### Type

Completion Requirement

#### Core Courses

##### Earn at least 9 credits from the following:

- Core courses: 9 units: Psychology 203, Wellbeing 300 and 400.

#### Mental Wellbeing and Resilience electives

An additional 9 units from the Field of Mental Wellbeing and Resilience, of which a minimum of 3 units must be at the 300 level or above.

##### Earn at least 9 credits from the following:

- Field of Mental Wellbeing and Resilience

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

### Program Admissions Information

Psychology Majors become eligible to declare this Minor once they have completed Psychology 200 and 201. A Psychology major with a minor in Speech-Language Sciences may not be combined with a minor in Linguistics.

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

#### Faculty of Arts Requirement

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

**Earn at least 30 credits from the following:**

- Required courses: 24 units Linguistics 201, 301, 303, 316, 337, 341, 441, 467
- 6 units from Linguistics 401, 403, 416, 516, 542

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

In order to be admitted to the Minor, students must have successfully completed a minimum of 15 units and require a minimum GPA of 3.20 calculated using the most recent course work to a maximum of 30 units.

Students will be considered for admission on a competitive basis, and meeting the minimum requirements does not guarantee admission.

A Linguistics major with a Minor in Speech-Language Sciences may not be combined with a Minor in Psychology.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

#### Faculty of Arts Requirement

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Psychology

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Psychology while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Psychology

**Additional Comments:**

## Program Requirements

### Type

#### Completion Requirement

##### Specified Courses - Minor Program

##### Earn at least 6 credits from the following:

- Introduction: 6 units Psychology 200, 201

##### Required Options - Minor Program

An additional 24 units from Courses Constituting the Field of Psychology

##### Earn at least 24 credits from the following:

- Courses Constituting the Field of Psychology

Spaces in Psychology courses are limited and cannot be guaranteed for Minors. Registration in 400- and 500-level Psychology courses is normally restricted to Psychology Majors.

### Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Psychology is both a science and a profession. As scientists, psychologists work in a variety of settings like universities, hospitals, government, and corporations and carry out both basic and applied research. As a profession, psychology includes a number of different types of practitioners who apply psychological knowledge to solve personal, social, and practical problems. These include clinical psychologists who specialize in the identification and treatment of psychological disorders but also provide psychological assessments, health-related services, and psychological interventions. Practitioners also include industrial/organizational psychologists who work in recruitment, selection, training, and other business practice areas. Career options depend on students' goals and interests and the level and type of training acquired. With a BA or BSc, students may find employment in a variety of settings and a range of occupations such as human resources manager, addictions counsellor, researcher, consultant, case worker, etc. A degree in psychology can also be the first step in the pursuit of a variety of careers in fields that require an undergraduate degree such as law, medicine, management, social work, speech pathology, and audiology. Students wishing to work as a clinical or counselling psychologist will require additional university training in Psychology beyond the BA or BSc degree. Students wishing to take a Psychology degree that emphasizes the social sciences and humanities should register for the BA degree; those who wish to emphasize the biological and natural sciences should register for the BSc degree. Students who are interested in pursuing graduate study in Psychology should consider the Psychology BA or BSc Honours Program.

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Psychology

##### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Psychology while fulfilling the Program Requirements:

##### Earn at least 45 credits from the following:

- Courses Constituting the Field of Psychology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 30 credits from the following:

- Introduction: 6 units Psychology 200, 201
- Research Methods and Statistics: 6 units Psychology 300, 301
- Foundation Courses: 6 units Psychology 345, 375
- Foundation Courses: 9 units from Psychology 321, 349\*, 352\*, 365, 369, 373, 383, 385
- Applying Research Methods: 3 units from Psychology 400\*, 415, 425, 427, 430, 435, 478, 504, 505

*\*A maximum of 3 units from Psychology 349 or 352 may be used to fulfill this requirement.*

*\*Students may count a maximum of 3 units from Psychology 400 toward their degree requirements.*

## Major-Field - Specified Options

*Upper-Level Courses:* An additional 15 units at the 400 or 500 level from Courses Constituting the Field of Psychology.

**Earn at least 15 credits from the following:**

- Courses Constituting the Field of Psychology

**Additional Comments:**

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

Programs in Psychology cannot be taken in conjunction with programs in Neuroscience. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

## Introduction

Psychology is both a science and a profession. As scientists, psychologists work in a variety of settings like universities, hospitals, government, and corporations and carry out both basic and applied research. As a profession, psychology includes a number of different types of practitioners who apply psychological knowledge to solve personal, social, and practical problems. These include clinical psychologists who specialize in the identification and treatment of psychological disorders but also provide psychological assessments, health-related services, and psychological interventions. Practitioners also include

industrial/organizational psychologists who work in recruitment, selection, training, and other business practice areas. Career options depend on students' goals and interests and the level and type of training acquired. With a BA or BSc, students may find employment in a variety of settings and a range of occupations such as human resources manager, addictions counsellor, researcher, consultant, case worker, etc. A degree in psychology can also be the first step in the pursuit of a variety of careers in fields that require an undergraduate degree such as law, medicine, management, social work, speech pathology, and audiology. Students wishing to work as a clinical or counselling psychologist will require additional university training in Psychology beyond the BA or BSc degree. Students wishing to take a Psychology degree that emphasizes the social sciences and humanities should register for the BA degree; those who wish to emphasize the biological and natural sciences should register for the BSc degree. Students who are interested in pursuing graduate study in Psychology should consider the Psychology BA or BSc Honours Program.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Psychology Majors are eligible to apply for Honours upon completion of at least 72 units, with at least one lab course (i.e., 3 units from Psychology 400, 415, 425, 427, 430, 435, 478, 504, or 505).

Due to high demand, the qualifying grade point average for eligibility for admission to Honours Psychology is typically set higher than the minimum 3.30 level for the Faculty of Arts. When this is the case, the qualifying average for the following year is announced on the Department website by October 1. For the purpose of admission to Honours, a student's grade point average is calculated over the most recent course work to a maximum of 60 units inclusive of courses from other institutions as well as the University of Calgary.

Psychology Majors must apply through their [Student Centre](#) for a change of program to Honours no later than January 23 of the year prior to their final year. Admission is contingent on the availability of an eligible thesis supervisor, as well as the availability of the resources (laboratory space, equipment, etc.) needed to complete the thesis. Students are encouraged to consult with the Psychology Advisor well before the January 23 deadline to determine their eligibility.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

## Additional Comments:

### Courses Constituting the Field of Psychology

#### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Psychology while fulfilling the following requirements:

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Psychology

## Additional Comments:

### Program Requirements

#### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 45 credits from the following:**

- Introduction: 6 units Psychology 200, 201
- Research Methods and Statistics: 6 units Psychology 300, 301
- Foundation Courses: 6 units Psychology 345, 375
- Foundation Courses: 9 units from Psychology 321, 349\*, 352\*, 365, 369, 373, 383, 385
- History of Psychology: Psychology 305
- Applying Research Methods: 3 units from Psychology 400\*, 415, 425, 427, 430, 435, 478, 504, 505
- Advanced Research Methods: 3 units from Psychology 407, 411, 412, 415\*\*
- Honours Courses: 9 units Psychology 501 and 598, which must be completed during the final year of program

*\*A maximum of 3 units from Psychology 349 or 352 may be used to fulfill this requirement.*

*\*Students may count a maximum of 3 units from Psychology 400 toward their degree requirements.*

*\*\*Psychology 415 cannot be used to satisfy both "Applying Research Methods" and "Advanced Research Methods"*

Major-Field - Required Options

*Senior Psychology Options:* An additional 15 units from Courses Constituting the Field of Psychology at the 400 level or above.

**Earn at least 15 credits from the following:**

- Courses Constituting the Field of Psychology

## Additional Comments:

### Degree Options

#### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Overlapping Programs

Programs in Psychology cannot be taken in conjunction with programs in Neuroscience. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

## Introduction

Psychology is both a science and a profession. As scientists, psychologists work in a variety of settings like universities, hospitals, government, and corporations and carry out both basic and applied research. As a profession, psychology includes a number of different types of practitioners who apply psychological knowledge to solve personal, social, and practical problems. These include clinical psychologists who specialize in the identification and treatment of psychological disorders but also provide psychological assessments, health-related services, and psychological interventions. Practitioners also include industrial/organizational psychologists who work in recruitment, selection, training, and other business practice areas. Career options depend on students' goals and interests and the level and type of training acquired. With a BA or BSc, students may find employment in a variety of settings and a range of occupations such as human resources manager, addictions counsellor, researcher, consultant, case worker, etc. A degree in psychology can also be the first step in the pursuit of a variety of careers in fields that require an undergraduate degree such as law, medicine, management, social work, speech pathology, and audiology. Students wishing to work as a clinical or counselling psychologist will require additional university training in Psychology beyond the BA or BSc degree. Students wishing to take a Psychology degree that emphasizes the social sciences and humanities should register for the BA degree; those who wish to emphasize the biological and natural sciences should register for the BSc degree. Students who are interested in pursuing graduate study in Psychology should consider the Psychology BA or BSc Honours Program.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

##### Additional Comments:

#### Courses Constituting the Field of Psychology

##### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of Psychology while fulfilling the Program Requirements:

##### Earn at least 45 credits from the following:

- Courses Constituting the Field of Psychology

##### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 30 credits from the following:

- Introduction: 6 units Psychology 200, 201
- Research Methods and Statistics: 6 units Psychology 300, 301
- Foundation Courses: 6 units Psychology 345, 375
- Foundation Courses: 9 units from Psychology 321, 349\*, 352\*, 365, 369, 373, 383, 385
- Applying Research Methods: 3 units from Psychology 400\*, 415, 425, 427, 430, 435, 478, 504, 505

*\*A maximum of 3 units from Psychology 349 or 352 may be used to fulfill this requirement.*

*\*Students may count a maximum of 3 units from Psychology 400 toward their degree requirements.*

#### Major-Field - Specified Options

*Upper-Level Courses:* An additional 15 units at the 400 or 500 level from Courses Constituting the Field of Psychology.

##### Earn at least 15 credits from the following:

- Courses Constituting the Field of Psychology

#### Other Requirements

Earn at least 21 credits from the following:

- 6 units Biology 241 and 243
- 6 units Chemistry 201 or 211 and 203 or 213
- 6 units Mathematics 249 or 265 and one of 211, 213, 267
- 3 units from Computer Science 217, Data Science 201, Physics 211, 221, 227

Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Embedded Certificates

#### Overlapping Programs

Programs in Psychology cannot be taken in conjunction with programs in Neuroscience. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/psychology](https://arts.ucalgary.ca/psychology)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Courses and Registration

Registration in 400- and 500-level Psychology courses is restricted to Psychology Majors.

## Introduction

Psychology is both a science and a profession. As scientists, psychologists work in a variety of settings like universities, hospitals, government, and corporations and carry out both basic and applied research. As a profession, psychology includes a number of different types of practitioners who apply psychological knowledge to solve personal, social, and practical problems. These include clinical psychologists who specialize in the identification and treatment of psychological disorders but also provide psychological assessments, health-related services, and psychological interventions. Practitioners also include industrial/organizational psychologists who work in recruitment, selection, training, and other business practice areas. Career

options depend on students' goals and interests and the level and type of training acquired. With a BA or BSc, students may find employment in a variety of settings and a range of occupations such as human resources manager, addictions counsellor, researcher, consultant, case worker, etc. A degree in psychology can also be the first step in the pursuit of a variety of careers in fields that require an undergraduate degree such as law, medicine, management, social work, speech pathology, and audiology. Students wishing to work as a clinical or counselling psychologist will require additional university training in Psychology beyond the BA or BSc degree. Students wishing to take a Psychology degree that emphasizes the social sciences and humanities should register for the BA degree; those who wish to emphasize the biological and natural sciences should register for the BSc degree. Students who are interested in pursuing graduate study in Psychology should consider the Psychology BA or BSc Honours Program.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework.

Psychology Majors are eligible to apply for Honours upon completion of at least 72 units, with at least one lab course (i.e., 3 units from Psychology 400, 415, 425, 427, 430, 435, 478, 504, or 505).

Due to high demand, the qualifying grade point average for eligibility for admission to Honours Psychology is typically set higher than the minimum 3.30 level for the Faculty of Arts. When this is the case, the qualifying average for the following year is announced on the Department website by October 1. For the purpose of admission to Honours, a student's grade point average is calculated over the most recent course work to a maximum of 60 units inclusive of courses from other institutions as well as the University of Calgary.

Psychology Majors must apply through their [Student Centre](#) for a change of program to Honours no later than January 23 of the year prior to their final year. Admission is contingent on the availability of an eligible thesis supervisor, as well as the availability of the resources (laboratory space, equipment, etc.) needed to complete the thesis. Students are encouraged to consult with the Psychology Advisor well before the January 23 deadline to determine their eligibility.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

##### Completion Requirement

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

**Courses Constituting the Field of Psychology**

**Type**

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Psychology while fulfilling the following requirements:

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Psychology

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

**Major-Field - Specified Courses**

**Earn at least 45 credits from the following:**

- Introduction: 6 units Psychology 200, 201
- Research Methods and Statistics: 6 units Psychology 300, 301
- Foundation Courses: 6 units Psychology 345, 375
- Foundation Courses: 9 units from Psychology 321, 349\*, 352\*, 365, 369, 373, 383, 385
- History of Psychology: Psychology 305
- Applying Research Methods: 3 units from Psychology 400\*, 415, 425, 427, 430, 435, 478, 504, 505
- Advanced Research Methods: 3 units from Psychology 407, 411, 412, 415\*\*
- Honours Courses: 9 units Psychology 501 and 598, which must be completed during the final year of program

*\*A maximum of 3 units from Psychology 349 or 352 may be used to fulfill this requirement.*

*\*Students may count a maximum of 3 units from Psychology 400 toward their degree requirements.*

*\*\*Psychology 415 cannot be used to satisfy both "Applying Research Methods" and "Advanced Research Methods"*

**Major-Field - Required Options**

*Senior Psychology Options:* An additional 15 units from Courses Constituting the Field of Psychology at the 400 level or above.

**Earn at least 15 credits from the following:**

- Courses Constituting the Field of Psychology

**Other Requirements**

**Earn at least 21 credits from the following:**

- 6 units Biology 241 and 243
- 6 units Mathematics 249 or 265 and one of 211, 213, 267
- 6 units Chemistry 201 or 211 and 203 or 213
- 3 units from Computer Science 217, Data Science 201, Physics 211, 221, 227

**Additional Comments:**

**Degree Options**

**Type**

## Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Overlapping Programs

Programs in Psychology cannot be taken in conjunction with programs in Neuroscience. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

### Additional Comments:

## Overview

### General Program Information

#### Specializations:

- Industrial/Organizational Psychology
- Medical Im
- Wearable T
- Comp Neuro

Email address: <mailto:artsgradsc@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for the submission of completed applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/psychology-master-science-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/psychology-master-science-thesis-based).

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

- a) A four-year undergraduate degree in Psychology or related discipline. Students not having an undergraduate degree in Psychology must demonstrate adequate background in psychology. Those needing additional work may be required to take particular courses.
- b) A minimum admission grade point average of 3.40 on a four-point scale over the last 60 units.
- c) An undergraduate course in statistics/experimental design.
- d) For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), an IELTS score of 7.5, a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in each course.
- e) Two academic reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, the Department requires students to complete no fewer than 12 units of coursework, which include:

##### Complete ALL of the following Courses:

- PSYC600 - Professional Development

##### Earn at least 6 credits from the following:

- PSYC607 - Advanced Research Design and Methodology in Psychology  
OR PSYC611 - Advanced Qualitation Inquiry in Psychology  
OR PSYC613 - Signal and Systems Analysis in Behavioural Research  
OR PSYC615 - Analysis of Variance  
OR PSYC617 - Multivariate Data Analysis  
OR PSYC619 - Special Topics in the Design of Psychological Research

##### Earn at least 3 credits from the following:

- PSYC601 - History of Psychology  
OR PSYC620 - Advanced Topics in Brain and Cognitive Sciences  
OR PSYC623 - Functional Neuroanatomy  
OR PSYC630 - Advanced Topics in Social and Theoretical Psychology  
OR PSYC639 - Adv Industrial & Organize Psyc  
OR PSYC700 - Integrative Seminar in Psychology  
OR PSYC710 - Integrative Seminar in Psychology  
OR PSYC720 - Seminar in Brain and Cognitive Sciences  
OR PSYC730 - Seminar in Social and Theoretical Psychology  
OR PSYC739 - Seminar in Industrial/Organizational Psychology

These courses may be substituted with seminar courses from other departments with approval by the supervisor and the Graduate Program Director.

#### Additional Comments:

### Industrial Organizational Specialization

I/O students in the MSc program are required to take 24 units with 6 units in research methods and statistics, 12 units in I/O Psychology (Psychology 639, 739), and 6 units outside the I/O area.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Psychology program in the Psychology Department will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for 500-level undergraduate courses up to a maximum of three courses.

### Time Limit

Expected completion time is two years for the Master of Science program.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An interim supervisor is assigned to each student at the time of admission. In no case will a student be admitted if an appropriate supervisor is not expected to be available. The shift from interim to permanent supervisor formally takes place at the end of the first year. The Graduate Program Director must approve the permanent supervisor.

Master's level students must have a supervisory committee consisting of the supervisor plus two other faculty members.

### Research Proposal

Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

All Master of Science students must formally present a thesis proposal not more than 14 months after admission to the program. The proposal must be typed and 10 to 30 double-spaced pages (12 pt font, reference list extra). Students must consult with their supervisors. The supervisory committee must approve the thesis proposal.

### Thesis Examinations

In addition to Faculty of Graduate Studies regulations for **Thesis Examinations**, the program requires the following:

Thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to submit their applications to the Department by January 15.

## Overview

### General Program Information

The Department accepts applicants who plan to remain full-time to the completion of their degree. The program does not offer a part-time option.

### Specializations:

- Industrial Organizational Specialization
- [Medical Im](#)
- [Wearable T](#)
- [Comp Neuro](#)

Email address: <mailto:artsgradsc@ucalgary.ca>

## Admissions

### Program Admissions Information

Deadlines for the submission of completed applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/psychology-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/psychology-doctor-philosophy-thesis-based)

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- A four-year undergraduate degree in Psychology or related discipline. Students not having an undergraduate degree in Psychology must demonstrate adequate background in psychology. Those needing additional work may be required to take particular courses.
- A minimum admission grade point average of 3.40 on a four-point scale over the last 60 units.
- An undergraduate course in statistics/experimental design.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (Internet-based test), an IELTS score of 7.5, a CAEL score of 70 with a minimum of 70 in each component, or a PTE score of 75. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- Two academic reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires students to complete no fewer than 12 units of coursework, which include:

**Earn at least 6 credits from the following:**

- PSYC601 - History of Psychology

**OR PSYC620** - Advanced Topics in Brain and Cognitive Sciences  
**OR PSYC623** - Functional Neuroanatomy  
**OR PSYC630** - Advanced Topics in Social and Theoretical Psychology  
**OR PSYC639** - Adv Industrial & Organize Psyc  
**OR PSYC700** - Integrative Seminar in Psychology  
**OR PSYC710** - Integrative Seminar in Psychology  
**OR PSYC720** - Seminar in Brain and Cognitive Sciences  
**OR PSYC730** - Seminar in Social and Theoretical Psychology  
**OR PSYC739** - Seminar in Industrial/Organizational Psychology

- plus 6 units of elective courses.

The supervisor and the Graduate Program Director must approve all courses.

#### Additional Comments:

### Industrial Organizational Specialization

I/O students in the PhD program are required to take 12 units in I/O Psychology (**PSYC739 Sem Industrial/Organiz Psyc**), and 6 units outside of I/O Psychology that were not completed during the MSc program.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Psychology program in the Psychology Department will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Psychology Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Credit may be given for 500-level undergraduate courses up to a maximum of three courses.

### Time Limit

Expected completion time is two years for the Master of Science program and four years for the doctoral program. See **Time Limits**.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

#### Additional Comments:

#### Supervisory Assignments

### Supervisory Assignments

An interim supervisor is assigned to each student at the time of admission. In no case will a student be admitted if an appropriate supervisor is not expected to be available. The shift from interim to permanent supervisor formally takes place at the end of the first year. The Graduate Program Director must approve the permanent supervisor.

## Research Proposal

Students whose research involves human subjects must receive approval from the appropriate departmental or University Ethics Review Committee before beginning data collection.

## Required Examinations

### Candidacy

Doctoral students must pass oral and written Field of Study examinations and must submit a written thesis proposal, which is approved by their Supervisory Committee in a Thesis Proposal Meeting. For further information see [Psychology Candidacy Requirements](#).

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires the following:

Thesis oral examinations are open.

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Core faculty members in the Psychology and Clinical Psychology programs are not eligible to serve as Internal Examiner; however, adjunct faculty members are eligible to serve in this capacity.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships are advised to submit their applications to the Department by January 15.

## Overview

### General Program Information

The University offers an interdisciplinary specialization in Wearable Technology at the master's and doctoral levels for students registered in the following faculties and graduate programs:

- Faculty of Kinesiology
- Biomedical Engineering Graduate Program
- Geomatics Engineering Graduate Program
- Department of Electrical and Software Engineering
- Department of Computer Science
- Department of Psychology
- Computational Media Design Graduate Program

The student will receive the MSc (thesis-based) or PhD degree offered by the home program.

Faculty of Kinesiology

Location: KNB 269

Program number: 403.220.7019

Email address: <mailto:kirsten.penrose@ucalgary.ca>

Web page URL: <https://kinesiology.ucalgary.ca/future-students/graduates/our-programs/wearable>

## Admissions

### Program Admissions Information

The deadlines for applying for admission into the Wearable Technology specialization are available on the Future Students website for the home graduate program.

- [MSCT Kines](#)
- [PHD Kinesi](#)
- [MSCT Biome](#)
- [PHD Biomed](#)
- [MSCT Geoma](#)
- [PHD Geomat](#)
- [Engineerin](#)
- [Engineerin](#)
- [MSCT Compu](#)
- [PHD Comput](#)
- [MSCT Comp](#)
- [PhD Comp M](#)
- [MSCT Psych](#)
- [PHD Psycho](#)

Applicants must meet the [admission](#) requirements of the Faculty of Graduate Studies and the home program that offers the Wearable Technology specialization. The specialization is open to both Canadian and international students.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

##### MSc (thesis-based)

In addition to meeting the requirements of Faculty of Graduate Studies ([see regulations](#)) and the home program, MSc students in the Wearable Technology specialization must meet the following course requirements:

1. [KNES608 Innovate Wearable Technology](#) or [CPSC601 Special Topics in CPSC](#) (Topic: Wearable Applications) or [ENEL619 Special Problems](#) (Topic: AI and Security of Cyber-physical Systems).
2. [ENTI625 Intro to Entrepreneurship](#)
3. Completion of a practicum placement [KNES612.01 Practicum I](#)

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval

from the Graduate Program Director, supervisor, and supervisory committee.

### Doctor of Philosophy

In addition to meeting the requirements of Faculty of Graduate Studies and the home program, PhD trainees in the Wearable Technology specialization must meet the following course requirements:

1. **KNES608 Innovate Wearable Technology** or **CPSC601 Special Topics in CPSC** (Topic: Wearable Applications) or **ENEL619 Special Problems** (Topic: AI and Security of Cyber-physical Systems).
2. **ENTI625 Intro to Entrepreneurship**
3. Completion of a practicum placement **KNES612.01 Practicum I**\*
4. One (3 unit) elective in Biomechanics, OR Data Science, OR Data Visualization\*\* at the 600 or 700 level.

*\*With the support of the student's home program and Faculty of Graduate Studies, the student may complete Kinesiology 612 either before or after admission to candidacy.*

*\*\*Must be approved by the specialization Director, the student's Supervisor and Supervisory Committee.*

Specialization course requirements may count as elective courses in the student's home program (if applicable) with approval from the Graduate Program Director, Supervisor, and Supervisory Committee.

Students are expected to attend the annual Wearable Technology Workshop held each Fall semester and participate in the Wearable Technology Lecture series.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant should make requests for **Advanced Credit** at the time of application, as part of the admissions process.

### Time Limit

Expected completion time is two years for full-time students in a thesis-based master's program and four years in a doctoral program.

### Supervisory Assignments

See requirements of home program.

### Required Examinations

See requirements of home program and the Faculty of Graduate Studies (**Academic Regulations**).

### Financial Assistance

See home program.

# University of Calgary - Qatar Department

Summary of Degree Programs

Faculty Information

Faculty Regulations

Program Details

Administration

## Programs

### Overview

General Program Information

### Contact Information

Location:

Al-Forousiya Road (Opposite Horse Race Track)

PO Box 23133

Doha, Qatar

Phone: +974 4406 5222

Email address: [ucqadmit@ucalgary.ca](mailto:ucqadmit@ucalgary.ca)

Website: [ucalgary.edu.qa](http://ucalgary.edu.qa)

### Introduction

The University of Calgary in Qatar (UCQ) is a branch campus of the University of Calgary, established in 2006. UCQ exclusively offers programs that prepare nurses and offers BN and MN programs. UCQ's vision is to be the model for excellence in international nursing education, practice, and scholarship and its mission is to enrich the health and wellness in Qatar by educating and developing world-class nurses. The Canadian Association of Schools of Nursing accredits the undergraduate nursing programs at UCQ. UCQ nursing graduates receive the same degree credentials as students at the University of Calgary main campus. The BN programs support nursing graduates to achieve excellence in entry-level competences as defined by the College and Association of Registered Nurses of Alberta's (CARNA) (2019) and to demonstrate professional, legal, and ethical decision-making as outlined in the Canadian Nurses Association (2017) and the International Council of Nurses (2012) Codes of Ethics. Exemplars applied throughout the curricula are tailored and relevant to the Qatar context.

### Professional Conduct

The study of nursing places students in a position of special trust with persons/patients, families, with nurses, and with other health-care professionals. The Qatar Faculty of Nursing recognizes that nursing education occurs both inside and outside the classroom and has the responsibility to ensure that its graduates are competent and ethical. Students are expected to comply with all University of Calgary policies and regulations. Although nursing students in program are not regulated members of QCHP, as part of their formation as professional nurses, they are also expected to be familiar with and to meet professional and ethical competences and standards as outlined by:

CARNA (2019). Entry-to-practice competencies for the practice of registered nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

QHCP (2014). Nursing Regulations in the State of Qatar. <https://lc.ucalgary.edu.qa/c.php?g=825172&p=5896718>

Canadian Nurses Association (2017). Code of Ethics for Registered Nurses. [nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a\\_12](https://nurses.ab.ca/docs/default-source/document-library/standards/entry-to-practicecompetencies-for-the-registered-nurses-profession.pdf?sfvrsn=15c1005a_12)

### Career Opportunities

To practice as a Registered Generalist Nurse in Qatar, one must be licensed through the Qatar Council for Health Professionals (QCHP). UCQ nursing students are prepared to write a national licensing exam as defined by QCHP. Upon graduation, UCQ nursing graduates are prepared to work as practitioners across diverse settings, and with persons, families, and communities experiencing varying degrees of wellness, health, and illness. UCQ nursing graduates have strong foundations skills for Interprofessional practice, leadership, and research.

## Student Affairs

### Advising Services

Student advisors are available in Student and Enrolment Services. Contact information, including office hours, can be found at: [ucalgary.edu.qa/current-students/student-services](http://ucalgary.edu.qa/current-students/student-services). Students are encouraged to become familiar with the office and its services.

### Nursing Student Society in Qatar (NSSQ)

The NSSQ is a society consisting of elected representatives from the Nursing student body. NSSQ serves students by providing faculty-student liaisons, information on current nursing issues, social functions, and a support network for nursing students.

## Resources

The Faculty houses a Clinical Simulation and Standardized Patient Centre and several laboratories. UCQ has partnered with several health services organizations through the country that provide opportunity for students to apply theory in practice settings. Health service organizations include Hamad Medical Corporation (HMC), Primary Health Care Cooperation (PHCC), Sidra, and various private health-care organizations. Within these organizations, nursing students are supervised and preceptored to work with various populations (e.g., pediatrics, adults, elderly), across the health-illness continuum (e.g., acute care, life-threatening illness, palliative care, chronic disease conditions), and in diverse settings and units (e.g., community primary health-care centres, obstetrical units, medical-surgical units).

UCQ hosts a Learning Commons that provides resources and services that enable the UCQ community to discover, apply, evaluate, and communicate information for learning, teaching, and professional practice. Students have access to varied academic supports, including a learning coach, tutoring, and assistance with math, science, and academic and information literacy skills. There are female and male gyms, an outdoor recreation space, a cafeteria, prayer rooms, and student lounges.

## Admissions

### Program Admissions Information

## Deadlines

Applications are accepted from October 15 to April 1 for September entry and November 1 for Winter entry.

## Admission Requirements

### Bachelor of Nursing (Regular Track)

For direct entry into the Bachelor of Nursing (Regular Track) program, prospective students must present:

- The following Grade 12 level subjects with an overall average of 65 per cent or higher (all subjects must be approved as equivalent to Alberta Grade 12):
  - English
  - Mathematics
  - Biology
  - Chemistry
  - One Option Course
  - English Language Proficiency
- Qatari Citizenship, a Qatar Resident's Permit or the ability to seek Permanent Residency through a family member (UCQ cannot issue Student Visas)

**Note:** Students who meet all admission requirements will be admitted directly to the Bachelor of Nursing program. Students who lack the appropriate high school courses and grades and/or require the English Language Proficiency requirement may be admitted to the Nursing Foundation Program (see admission requirements below).

## English Language Proficiency

The State of Qatar has designated English as the language of health-care delivery. Nursing education and the Nursing profession require a high level of spoken and written communication skill in order to ensure patient safety. Students who, after admission to the Diploma in Nursing or Bachelor of Nursing (Regular or Post-Diploma), show an inadequate command of spoken or written

English must improve their proficiency to the Faculty's satisfaction in collaboration with the Nursing Foundation Program. Students may be asked to withdraw from the program if their ability in English interferes with their ability to provide patient care.

For admission to the Bachelor of Nursing or the Diploma in Nursing program, students must present a minimum score of:

- 80 on Test of English as a Foreign Language (TOEFL) Internet-based test (213 on the computer-based TOEFL or 550 on the paper-based TOEFL),
- or a minimum score of 6.0 on the International English Language Testing System (IELTS) test,
- or minimum score of 60 on the Canadian Academic English Language Assessment (CAEL),
- or a minimum score of 77 on the Michigan English Language Assessment Battery (MELAB) examination.

For admission to the Nursing Foundation Program, students must present a minimum score of:

- 40 on Test of English as a Foreign Language (TOEFL) Internet-based test (120 on the computer-based TOEFL or 433 on the paper-based TOEFL),
- a minimum score of 4.0 on the International English Language Testing System (IELTS) test,
- an acceptable score on the UCQ placement test.

### Immunization Requirements

- All nursing students are required to complete a series of immunization and diagnostic tests as outlined on the Student Immunization Form. Documented proof of completion must be provided to the University of Calgary in Qatar prior to commencement of the program.
- Throughout the BN program, students are required to ensure that immunizations are current and must provide proof of updates to the University of Calgary in Qatar. Failure to do so will result in students being removed from clinical courses until such time as adequate proof has been provided. These requirements may change during the program as determined by UCQ in collaboration with Alberta Health Services and the Qatar Ministry of Public Health. Students will be informed if there are changes.

### Cardio-Pulmonary Resuscitation Certification

- All BN students will be required to submit proof of current Basic Life Support (BLS) for Health Care Providers (Level C) prior to the commencement of clinical practice courses. Evidence of such certification is to be provided to the practice instructor.
- Students will be responsible for obtaining course training and certification.

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

Completion Requirement

#### Graduation Requirements

### Academic Progression Requirements

Promotion from year to year is by recommendation of the Qatar Faculty. For purposes of promotion, the academic year is considered to be from September 1 of one year to August 31 of the next. Hence, Spring Intersession grades are calculated with the previous Fall/Winter Term grades. The minimum requirement is a grade point average of 2.00 in each of the first two years and 2.50 in each of the last two years.

### Duration of Degree Program

Except with special permission of the Dean, the BN degree must be completed within seven calendar years from the date of initial registration in the program.

### Transfer Credit

The 120-unit (four-year or 12 terms of study) curriculum outlined below is intended primarily for high school students.

Transfer students who have prior post-secondary credit in non-nursing support courses may be eligible to complete the BN in a shorter timeframe. Details will be made available to students as their credit is evaluated at the time of admission, and will be dependent on practice and faculty resources and student demand.

Students transferring from other institutions or faculties within the University of Calgary in Qatar are considered on an individual basis. However, students will be required to complete the equivalent of not fewer than 30 units, at least 18 units of which must be nursing courses taken as a BN student.

For other regulations related to the Qatar Faculty, see: [3. Qatar Faculty Regulations](#).

**Additional Comments:**

**Requirements for Students Admitted Before 2020**

**Type**

Completion Requirement

Core Nursing Courses (87 units)

(Note: Includes 6 units of science courses taught by Nursing in Qatar Faculty)

**Complete ALL of the following Courses:**

- NURS201 - Introduction To Nursing (Inactive)  
**AND** NURS207 - Nursing Inquiry (Inactive)  
**AND** NURS211 - Health Assessment (Inactive)  
**AND** NURS213 - Consolidation Practicum I (Inactive)  
**AND** NURS221 - Anatomy and Physiology I (Inactive)  
**AND** NURS222 - Anatomy and Physiology II (Inactive)  
**AND** NURS223 - Foundational Concepts in Nursing Practice I (Inactive)  
**AND** NURS224 - Foundational Concepts in Nursing Practice II (Inactive)  
**AND** NURS227 - Nursing Therapeutics for Alterations in Health I (Inactive)  
**AND** NURS301 - Adult Health Theory (Inactive)  
**AND** NURS302 - Adult Health Practice (Inactive)  
**AND** NURS303 - Family Growth And Development II (Inactive)  
**AND** NURS305 - Psychiatric/Mental Health Pract (Inactive)  
**AND** NURS307 - Nursing Of Families (Inactive)  
**AND** NURS309 - Nursing Research (Inactive)  
**AND** NURS327 - Nursing Therapeutics for Alterations in Health II (Inactive)  
**AND** NURS401 - Community Health Theory (Inactive)  
**AND** NURS402 - Community Health Practice (Inactive)  
**AND** NURS403 - Childbearing Families - Theory (Inactive)  
**AND** NURS404 - Childbearing Families - Practice (Inactive)  
**AND** NURS405 - Issues In Professional Practice (Inactive)  
**AND** NURS406 - Consolidation Practicum II (Inactive)  
**AND** NURS501 - Adv Concepts In Nursing Practice (Inactive)  
**AND** NURS502 - Senior Clinical Practicum

Support Courses (12 units)

Humanities

Philosophy

Science

STAT205 Intro to Statistical Inquiry

Options (21 units of Nursing or non-Nursing electives)

Additional Comments:

Requirements for Students Admitted 2020 or Later

Type

Completion Requirement

Core Nursing Courses (96 units)

(Note: Includes 9 units of science courses taught by Nursing in Qatar Faculty)

Complete ALL of the following Courses:

- NURS202 - Biochemistry and Microbiology for Nurses (Inactive)
- AND** NURS206 - Introduction to the Nursing Profession (Inactive)
- AND** NURS208 - Perspectives and Influences of Health (Inactive)
- AND** NURS210 - Nursing Concepts and Therapeutics I (Inactive)
- AND** NURS221 - Anatomy and Physiology I (Inactive)
- AND** NURS222 - Anatomy and Physiology II (Inactive)
- AND** NURS306 - Pathophysiology and Pharmacology Concepts (Inactive)
- AND** NURS308 - Introduction to Health Assessment (Inactive)
- AND** NURS309 - Nursing Research (Inactive)
- AND** NURS310 - Nursing Concepts and Therapeutics II (Inactive)
- AND** NURS312 - Introduction to Integrated Practice (Inactive)
- AND** NURS313 - Nursing for Alterations I (Inactive)
- AND** NURS314 - Families in Transition (Inactive)
- AND** NURS316 - Nursing Practice for Families
- AND** NURS408 - Clinical Leadership and Management
- AND** NURS409 - Acute Mental and Physical Health Alterations
- AND** NURS410 - Nursing Practice for Acute Health
- AND** NURS412 - High Acuity and Complex Health
- AND** NURS413 - Nursing for Alterations II
- AND** NURS414 - Chronic and Life-Limiting Conditions
- AND** NURS416 - Nursing Practice for High Acuity and Chronic Conditions
- AND** NURS504 - Critical Examination Nursing Issues
- AND** NURS505 - Population and Global Health
- AND** NURS506 - Exploratory Nursing Practice
- AND** NURS516 - Transition to Practice: Consolidation

Support Courses (15 units)

- ACWR201 Introduction Academic Writing and ACWR303 Discipline-based ACWR
- STAT205 Intro to Statistical Inquiry
- Humanities
- Philosophy

Options (9 units of Nursing or Non-Nursing electives)

Additional Comments:

## Overview

General Program Information

## Contact Information

Location:

Al-Forousiya Road (Opposite Horse Race Track)

PO Box 23133

Doha, Qatar

Phone: +974 4406 5222

Email address: [ucqadmit@ucalgary.ca](mailto:ucqadmit@ucalgary.ca)

Website: [ucalgary.edu.qa](http://ucalgary.edu.qa)

## Introduction

The University of Calgary in Qatar (UCQ) is a branch campus of the University of Calgary, established in 2006. UCQ exclusively offers programs that prepare nurses and offers BN and MN programs. UCQ's vision is to be the model for excellence in international nursing education, practice, and scholarship and its mission is to enrich the health and wellness in Qatar by educating and developing world-class nurses. The Canadian Association of Schools of Nursing accredits the undergraduate nursing programs at UCQ. UCQ nursing graduates receive the same degree credentials as students at the University of Calgary main campus. The BN programs support nursing graduates to achieve excellence in entry-level competences as defined by the College and Association of Registered Nurses of Alberta's (CARNA) (2019) and to demonstrate professional, legal, and ethical decision-making as outlined in the Canadian Nurses Association (2017) and the International Council of Nurses (2012) Codes of Ethics. Exemplars applied throughout the curricula are tailored and relevant to the Qatar context.

## Professional Conduct

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## Career Opportunities

To practice as a Registered Generalist Nurse in Qatar, one must be licensed through the Qatar Council for Health Professionals (QCHP). UCQ nursing students are prepared to write a national licensing exam as defined by QCHP. Upon graduation, UCQ nursing graduates are prepared to work as practitioners across diverse settings, and with persons, families, and communities experiencing varying degrees of wellness, health, and illness. UCQ nursing graduates have strong foundations skills for Interprofessional practice, leadership, and research.

## Student Affairs

### Advising Services

Student advisors are available in Student and Enrolment Services. Contact information, including office hours, can be found at: [ucalgary.edu.qa/current-students/student-services](http://ucalgary.edu.qa/current-students/student-services). Students are encouraged to become familiar with the office and its services.

### Nursing Student Society in Qatar (NSSQ)

The NSSQ is a society consisting of elected representatives from the Nursing student body. NSSQ serves students by providing faculty-student liaisons, information on current nursing issues, social functions, and a support network for nursing students.

## Resources

The Faculty houses a Clinical Simulation and Standardized Patient Centre and several laboratories. UCQ has partnered with

several health services organizations through the country that provide opportunity for students to apply theory in practice settings. Health service organizations include Hamad Medical Corporation (HMC), Primary Health Care Cooperation (PHCC), Sidra, and various private health-care organizations. Within these organizations, nursing students are supervised and preceptored to work with various populations (e.g., pediatrics, adults, elderly), across the health-illness continuum (e.g., acute care, life-threatening illness, palliative care, chronic disease conditions), and in diverse settings and units (e.g., community primary health-care centres, obstetrical units, medical-surgical units).

UCQ hosts a Learning Commons that provides resources and services that enable the UCQ community to discover, apply, evaluate, and communicate information for learning, teaching, and professional practice. Students have access to varied academic supports, including a learning coach, tutoring, and assistance with math, science, and academic and information literacy skills. There are female and male gyms, an outdoor recreation space, a cafeteria, prayer rooms, and student lounges.

## Admissions

### Program Admissions Information

## Deadlines

Applications are accepted from October 15 to April 1 for September entry and November 1 for Winter entry.

## Admission Requirements

**Diploma in Nursing Program (Program is currently under review. No new admissions will be permitted)**

- The following Grade 12 level subjects with an overall average of 65 per cent or higher (all subjects must be approved as equivalent to Alberta Grade 12):
- English
- Mathematics
- Biology
- Chemistry
- One Option Course
- English Language Proficiency
- Qatari Citizenship, a Qatar Resident's Permit or the ability to seek Permanent Residency through a family member (UCQ cannot issue Student Visas)

**Note:** Students who meet all admission requirements will be admitted directly to the Diploma in Nursing program. Students who lack the appropriate high school courses and grades and/or require the English Language Proficiency requirement may be admitted to the Nursing Foundation Program (see admission requirements below).

## English Language Proficiency

The State of Qatar has designated English as the language of health-care delivery. Nursing education and the Nursing profession require a high level of spoken and written communication skill in order to ensure patient safety. Students who, after admission to the Diploma in Nursing or Bachelor of Nursing (Regular or Post-Diploma), show an inadequate command of spoken or written English must improve their proficiency to the Faculty's satisfaction in collaboration with the Nursing Foundation Program. Students may be asked to withdraw from the program if their ability in English interferes with their ability to provide patient care.

For admission to the Bachelor of Nursing or the Diploma in Nursing program, students must present a minimum score of:

- 80 on Test of English as a Foreign Language (TOEFL) Internet-based test (213 on the computer-based TOEFL or 550 on the paper-based TOEFL),
- or a minimum score of 6.0 on the International English Language Testing System (IELTS) test,
- or minimum score of 60 on the Canadian Academic English Language Assessment (CAEL),
- or a minimum score of 77 on the Michigan English Language Assessment Battery (MELAB) examination.

For admission to the Nursing Foundation Program, students must present a minimum score of:

- 40 on Test of English as a Foreign Language (TOEFL) Internet-based test (120 on the computer-based TOEFL or 433 on the paper-based TOEFL),

- a minimum score of 4.0 on the International English Language Testing System (IELTS) test,
- an acceptable score on the UCQ placement test.

### Immunization Requirements

- All nursing students are required to complete a series of immunization and diagnostic tests as outlined on the Student Immunization Form. Documented proof of completion must be provided to the University of Calgary in Qatar prior to commencement of the program.
- Throughout the BN program, students are required to ensure that immunizations are current and must provide proof of updates to the University of Calgary in Qatar. Failure to do so will result in students being removed from clinical courses until such time as adequate proof has been provided. These requirements may change during the program as determined by UCQ in collaboration with Alberta Health Services and the Qatar Ministry of Public Health. Students will be informed if there are changes.

### Cardio-Pulmonary Resuscitation Certification

- All BN students will be required to submit proof of current Basic Life Support (BLS) for Health Care Providers (Level C) prior to the commencement of clinical practice courses. Evidence of such certification is to be provided to the practice instructor.
- Students will be responsible for obtaining course training and certification.

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

##### Completion Requirement

#### Nursing Courses (60 units)

##### Complete ALL of the following Courses:

- NURS201 - Introduction To Nursing (Inactive)  
**AND** NURS203 - Foundations For Nursing Practice (Inactive)  
**AND** NURS205 - Therapeutic Interventions (Inactive)  
**AND** NURS207 - Nursing Inquiry (Inactive)  
**AND** NURS209 - Nursing Practice (Inactive)  
**AND** NURS211 - Health Assessment (Inactive)  
**AND** NURS213 - Consolidation Practicum I (Inactive)  
**AND** NURS221 - Anatomy and Physiology I (Inactive)  
**AND** NURS222 - Anatomy and Physiology II (Inactive)  
**AND** NURS301 - Adult Health Theory (Inactive)  
**AND** NURS302 - Adult Health Practice (Inactive)  
**AND** NURS303 - Psychiatric/Mental Health Theory (Inactive)  
**AND** NURS305 - Psychiatric/Mental Health Pract (Inactive)  
**AND** NURS311 - Pathophysiology (Inactive)  
**AND** NURS403 - Childbearing Families - Theory (Inactive)  
**AND** NURS404 - Childbearing Families - Practice (Inactive)  
**AND** NURS406 - Consolidation Practicum II (Inactive)

#### Support Courses (9 units)

##### Complete ALL of the following Courses:

- UNIV205 - Effective Learning Strategies  
**AND** CPSC203 - Introduction to Problem Solving using Application Software  
**AND** PHIL313 - Bioethics

Options (6 units)

Complete 6 units of Nursing or Non-Nursing electives

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Location:

Al-Forouziya Road (Opposite Horse Race Track)

PO Box 23133

Doha, Qatar

Phone: +974 4406 5222

Email address: [ucqadmit@ucalgary.ca](mailto:ucqadmit@ucalgary.ca)

Website: [ucalgary.edu.qa](http://ucalgary.edu.qa)

## Introduction

The University of Calgary in Qatar (UCQ) is a branch campus of the University of Calgary, established in 2006. UCQ exclusively offers programs that prepare nurses and offers BN and MN programs. UCQ's vision is to be the model for excellence in international nursing education, practice, and scholarship and its mission is to enrich the health and wellness in Qatar by educating and developing world-class nurses. The Canadian Association of Schools of Nursing accredits the undergraduate nursing programs at UCQ. UCQ nursing graduates receive the same degree credentials as students at the University of Calgary main campus. The BN programs support nursing graduates to achieve excellence in entry-level competences as defined by the College and Association of Registered Nurses of Alberta's (CARNA) (2019) and to demonstrate professional, legal, and ethical decision-making as outlined in the Canadian Nurses Association (2017) and the International Council of Nurses (2012) Codes of Ethics. Exemplars applied throughout the curricula are tailored and relevant to the Qatar context.

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## Career Opportunities

To practice as a Registered Generalist Nurse in Qatar, one must be licensed through the Qatar Council for Health Professionals (QCHP). UCQ nursing students are prepared to write a national licensing exam as defined by QCHP. Upon graduation, UCQ nursing graduates are prepared to work as practitioners across diverse settings, and with persons, families, and communities experiencing varying degrees of wellness, health, and illness. UCQ nursing graduates have strong foundations skills for Interprofessional practice, leadership, and research.

## Student Affairs

### Advising Services

Student advisors are available in Student and Enrolment Services. Contact information, including office hours, can be found at: [ucalgary.edu.qa/current-students/student-services](http://ucalgary.edu.qa/current-students/student-services). Students are encouraged to become familiar with the office and its services.

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## Resources

The Faculty houses a Clinical Simulation and Standardized Patient Centre and several laboratories. UCQ has partnered with several health services organizations through the country that provide opportunity for students to apply theory in practice settings. Health service organizations include Hamad Medical Corporation (HMC), Primary Health Care Cooperation (PHCC), Sidra, and various private health-care organizations. Within these organizations, nursing students are supervised and preceptored to work with various populations (e.g., pediatrics, adults, elderly), across the health-illness continuum (e.g., acute care, life-threatening illness, palliative care, chronic disease conditions), and in diverse settings and units (e.g., community primary health-care centres, obstetrical units, medical-surgical units).

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## Admissions

### Program Admissions Information

## Deadlines

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## Admission Requirements

### Nursing Foundation Program

Students wishing to enter the Nursing Foundation Program leading to the Bachelor of Nursing degree program or the Diploma in Nursing program must present the following:

- Five academic high school subjects including science and mathematics at least at the grade 11 level, with an overall average of 65 per cent. Students with results lower than 65 per cent in any of biology, chemistry or mathematics at the grade 12 level will normally be required to take the foundation course in the subject.
- A minimum score of 40 on the TOEFL iBT, or equivalent IELTS or CAEL test score, or acceptable score on the UCQ English Placement test.
- Qatari Citizenship, a Qatar Resident's Permit or the ability to seek Permanent Residency through a family member (UCQ cannot issue Student Visas).

## English Language Proficiency

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## UCalgary

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## Program Details

### Simple Requisites

#### Course Requirements

##### Type

##### Completion Requirement

English for Academic Purposes:

##### Complete all of the following:

FNDE 150: Foundational Academic Writing and Grammar I  
FNDE 153: Foundational Reading Comprehension and Proficiency I  
FNDE 160: Foundational Academic Writing and Grammar II  
FNDE 163: Foundational Reading Comprehension and Proficiency II  
FNDE 170: Academic Writing and Grammar I  
FNDE 173: Reading Comprehension and Proficiency I  
FNDE 180: Academic Writing and Grammar II  
FNDE 183: Reading Comprehension and Proficiency II  
FNDE 190: Academic Writing and Grammar III  
FNDE 193: Reading Comprehension and Proficiency III

Mathematics/Science:

##### Complete all of the following:

QBIO101  
QBIO102  
QCHE101

QCHE102  
QMAT101  
QMAT102

Additional Comments:

## Overview

General Program Information

## Contact Information

Location:

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PO Box 23133

Doha, Qatar

Phone: +974 4406 5222

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## Student Affairs

# UCalgary

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## Admissions

### Program Admissions Information

## Deadlines

Applications are accepted from October 15 to April 1 for September entry and November 1 for Winter entry.

## Admission Requirements

### Bachelor of Nursing (Post-Diploma)

For direct entry into the Bachelor of Nursing (Post-Diploma) program prospective students must present the following:

- A Diploma from the High Institute of Nursing, a Nursing Diploma from Canada, or the equivalent
- A grade point average 2.00 or greater (on a four-point scale)
- Completion of the following Grade 12 level subjects (must be approved as equivalent to Alberta Grade 12):
- English
- Mathematics
- Biology
- Chemistry
- One Option Course
- English Language Proficiency
- Qatari Citizenship, a Qatar Resident's Permit or the ability to seek Permanent Residency through a family member (UCQ cannot issue Student Visas)

Students who meet all admission requirements will be admitted directly to the Bachelor of Nursing program. Students who only lack the English Language Proficiency requirements may be admitted to the Nursing Foundation Program (see admission requirements below).

## English Language Proficiency

The State of Qatar has designated English as the language of health-care delivery. Nursing education and the Nursing profession require a high level of spoken and written communication skill in order to ensure patient safety. Students who, after admission to the Diploma in Nursing or Bachelor of Nursing (Regular or Post-Diploma), show an inadequate command of spoken or written

English must improve their proficiency to the Faculty's satisfaction in collaboration with the Nursing Foundation Program. Students may be asked to withdraw from the program if their ability in English interferes with their ability to provide patient care.

For admission to the Bachelor of Nursing or the Diploma in Nursing program, students must present a minimum score of:

- 80 on Test of English as a Foreign Language (TOEFL) Internet-based test (213 on the computer-based TOEFL or 550 on the paper-based TOEFL),
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- or a minimum score of 77 on the Michigan English Language Assessment Battery (MELAB) examination.

For admission to the Nursing Foundation Program, students must present a minimum score of:

- 40 on Test of English as a Foreign Language (TOEFL) Internet-based test (120 on the computer-based TOEFL or 433 on the paper-based TOEFL),
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### Immunization Requirements

- All nursing students are required to complete a series of immunization and diagnostic tests as outlined on the Student Immunization Form. Documented proof of completion must be provided to the University of Calgary in Qatar prior to commencement of the program.
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### Cardio-Pulmonary Resuscitation Certification

- All BN students will be required to submit proof of current Basic Life Support (BLS) for Health Care Providers (Level C) prior to the commencement of clinical practice courses. Evidence of such certification is to be provided to the practice instructor.
- Students will be responsible for obtaining course training and certification.

## Program Details

### Simple Requisites

#### Requirements for Students Admitted Before 2020

##### Type

##### Completion Requirement

##### Nursing Courses (24 units)

##### Complete ALL of the following Courses:

- NURS411 - Nursing Scholarship (Inactive)  
**AND** NURS421 - Nursing Of Families (Inactive)  
**AND** NURS441 - Health Assessment Across the Life-Course (Inactive)  
**AND** NURS531 - Community Health Nursing Theory (Inactive)  
**AND** NURS533 - Community Health Nurs Clinic Prac (Inactive)  
**AND** NURS537 - Nursing Leadership And Management (Inactive)  
**AND** NURS539 - Research In Nursing (Inactive)  
**AND** NURS543 - Senior Practicum (Inactive)

##### Support Courses (3 units)

##### Complete ALL of the following Courses:

- STAT205 - Introduction to Statistical Inquiry

Options (18 units)

18 units of Nursing or Non-Nursing electives

**Additional Comments:**

#### Requirements for Students Admitted 2020 or Later

##### Type

Completion Requirement

Nursing Courses (27 units)

**Complete ALL of the following Courses:**

- NURS309 - Nursing Research (Inactive)  
**AND** NURS418 - Nursing as a Knowledge and Relational Profession (Inactive)  
**AND** NURS419 - Assessment and Therapeutics for Alterations in Health I (Inactive)  
**AND** NURS420 - Family and Community Health (Inactive)  
**AND** NURS441 - Health Assessment Across the Life-Course (Inactive)  
**AND** NURS518 - Advanced Clinical Leadership and Management (Inactive)  
**AND** NURS519 - Assessment and Therapeutics for Alterations II (Inactive)  
**AND** NURS524 - Critical Analyses of Nursing Issues (Inactive)  
**AND** NURS526 - Consolidation for Advanced Practice (Inactive)

Support Courses (9 units)

**Complete ALL of the following Courses:**

- ACWR201 - Introduction to Academic Writing  
**AND** ACWR303 - Discipline-based Academic Writing  
**AND** STAT205 - Introduction to Statistical Inquiry

Options (9 units)

9 units of Nursing or Non-Nursing electives

**Additional Comments:**

## School of Architecture, Planning and Landscape Department

Summary of Degree Programs

Faculty Information

Faculty Regulations

Program Details

Administration

Courses of Instruction by the School of Architecture, Planning and Landscape

## Programs

### Overview

General Program Information

# UCalgary

**Location:** Professional Faculties 2182

**Student Information:** 403.220.7070

**Fax number:** 403.284.4399

**Email address:** [info@salp.ucalgary.ca](mailto:info@salp.ucalgary.ca)

**Website:** [salp.ucalgary.ca](http://salp.ucalgary.ca)

## Bachelor of Design in City Innovation (BDCI)

The Bachelor of Design in City Innovation is a four-year degree that enables students to develop design and design thinking skills to address the complex issues that affect our cities and the broader built environment. Graduates can undertake further studies in a variety of professional programs including architecture, planning, landscape architecture, law, social work, public policy, public health, and data science as well as pursue careers in multiple disciplines in the private, public, and non-profit sectors that focus on creating positive change in the physical and social infrastructure of cities.

### Architecture Concentration (within the Bachelor of Design in City Innovation)

The courses required for the Architecture Concentration are equivalent to the courses in the Master of Architecture (MArch) Foundation Year and constitute the prerequisites for the University of Calgary's two-year MArch degree. Completion of this Concentration does not guarantee admission to the MArch or to other degree programs in the School of Architecture, Planning and Landscape.

Students interested in pursuing the MArch or MLA can refer to the School of Architecture, Planning and Landscape for additional admission information.

## Admissions

### Program Admissions Information

For School of Architecture, Planning and Landscape admission information see [3.1 Admissions](#).

## Program Details

### Simple Requisites

#### School of Architecture, Planning and Landscape - Graduation Requirements

##### Type

Completion Requirement

##### Graduation Requirements

Within the 120 units Bachelor of Design in City Innovation degree, all students must adhere to the applicable School of Architecture, Planning and Landscape Graduation requirements and must complete the Bachelor of Design in City Innovation degree (Architecture Concentration) Requirements (listed under the BDCI (ARCH) Requirements section):

##### Complete ALL of the following Requirement Sets:

- School of Architecture, Planning and Landscape - Graduation Requirements

For other regulations related to the School of Architecture, Planning and Landscape see [3. Faculty Regulations](#).

##### Additional Comments:

#### Bachelor of Design in City Innovation (Architecture Concentration)

##### Type

Completion Requirement

##### A. Core Courses (75 units)

**Complete ALL of the following Course Sets:**

- BDCI Core Courses - Junior Studio Requirement (6 units)
- BDCI Core Courses - Transscalar Studio Requirement\* (18 units)
- BDCI Core Courses - Global Citizen Requirement (15 units)
- BDCI Core Courses - Visualization Requirement (12 units)
- BDCI Core Courses - Technical Requirement (9 units)
- BDCI Core Courses - Data Science Requirement (6 units)
- BDCI Core Courses - Sustainability Requirement (6 units)
- BDCI Core Courses - Entrepreneurship Requirement (3 units)

\*Note: Students are required to complete all three scales (i.e., small, medium, and large) in these transscalar studio courses, which means completing:

- Minimum 6 units from Design 301, 304, or 401
- Minimum 6 units from Design 302, 305, or 402
- Minimum 6 units from Design 303, 306, or 403

**B. Architecture Concentration Requirements (30 units)**

**Complete ALL of the following Course Sets:**

- BDCI Architecture Concentration Requirements - Studio Requirement (18 units)
- BDCI Architecture Concentration Requirements - Visualization Requirement (3 units)
- BDCI Architecture Concentration Requirements - Technical Requirement (3 units)
- BDCI Architecture Concentration Requirements - School of Architecture, Planning, Landscape and Design Electives (6 units)

**C. Open Electives (15 units)**

**Earn at least 15 credits from the following:**

- Open Electives

**Additional Comments:**

## Overview

### General Program Information

## Minor in Architectural Studies

The courses required for the Minor are equivalent to the courses in the [Master of Architecture \(MArch\)](#) Foundation Year, and constitute the prerequisites for the University of Calgary's two-year MArch degree. Completion of this Minor does not guarantee admission to the MArch or to other degree programs in the School of Architecture, Planning and Landscape, but it may reduce the number of courses that are required for an MArch. Students completing the Minor must apply for admission to the MArch degree.

Students interested in pursuing an MArch at the University of Calgary should note that only those students who have completed a four-year degree are considered for admission.

## Admissions

### Program Admissions Information

This Minor is available only to students who are not in the Bachelor of Design in City Innovation program.

To be eligible for the Minor, students must have successfully completed a minimum of 24 units in post-secondary study by the end of the Fall Term in the year in which they apply. Admission to the Minor will be granted for the Fall Term only. Students must apply via their online Student Centre by February 1.

The Minor has a fixed number of places for students. Students will be admitted on a competitive basis. The application to the Minor will include consideration of the applicant's grade point average and a portfolio of their creative work. The grade point average for admission purposes will be calculated over the most-recent course work to a maximum of 30 units inclusive of the University of Calgary courses and/or transferable courses taken at other institutions. Students will be considered for admission on a competitive basis, and meeting the minimum requirements does not guarantee admission.

Applicants to the Minor must submit a digital portfolio that provides evidence of original or creative work in any field or medium, and includes a brief statement of their interest in the Minor. The requirements for digital portfolio submissions can be found on the [School of Architecture, Planning and Landscape](#) website.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

Completion Requirement

#### Specified Courses - Minor Program

The following 30 units must be completed successfully to achieve the Minor:

##### Earn at least 30 credits from the following:

- Architecture 500, 502, 504, 506, 508, 510, 512, 514

This Minor is available only to students who are not in the Bachelor of Design in City Innovation program.

For regulations related to the School of Architecture, Planning and Landscape see [3. Faculty Regulations](#).

#### Additional Comments:

## Overview

### General Program Information

# UCalgary

## General Program Information

**Location:** Professional Faculties 2182

**Student Information:** 403.220.7070

**Fax number:** 403.284.4399

**Email address:** [info@salp.ucalgary.ca](mailto:info@salp.ucalgary.ca)

**Website:** [salp.ucalgary.ca](http://salp.ucalgary.ca)

## Bachelor of Design in City Innovation (BDCI)

The Bachelor of Design in City Innovation is a four-year degree that enables students to develop design and design thinking skills to address the complex issues that affect our cities and the broader built environment. Graduates can undertake further studies in a variety of professional programs including architecture, planning, landscape architecture, law, social work, public policy, public health, and data science as well as pursue careers in multiple disciplines in the private, public, and non-profit sectors that focus on creating positive change in the physical and social infrastructure of cities.

## Architecture Concentration (within the Bachelor of Design in City Innovation)

The courses required for the Architecture Concentration are equivalent to the courses in the Master of Architecture (MArch) Foundation Year and constitute the prerequisites for the University of Calgary's two-year MArch degree. Completion of this Concentration does not guarantee admission to the MArch or to other degree programs in the School of Architecture, Planning and Landscape.

Students interested in pursuing the MArch or MLA can refer to the School of Architecture, Planning and Landscape for additional admission information.

## Landscape Architecture Concentration (within the Bachelor of Design in City Innovation)

The courses required for the Landscape Architecture Concentration are equivalent to the courses in the Master of Landscape Architecture (MLA) Foundation Year and constitute the prerequisites for the University of Calgary's two-year MLA degree. Completion of this Concentration does not guarantee admission to the MLA or to other degree programs in the School of Architecture, Planning and Landscape.

## Admissions

### Program Admissions Information

For School of Architecture, Planning and Landscape admission information see [3.1 Admissions](#).

## Program Details

### Simple Requisites

#### School of Architecture, Planning and Landscape - Graduation Requirements

##### Type

##### Completion Requirement

##### Graduation Requirements

Within the 120 units Bachelor of Design in City Innovation degree, all students must adhere to the applicable School of Architecture, Planning and Landscape Graduation requirements and must complete the Bachelor of Design in City Innovation Requirements (listed under the BDCI Requirements section):

##### Complete ALL of the following Requirement Sets:

- School of Architecture, Planning and Landscape - Graduation Requirements

For other regulations related to the School of Architecture, Planning and Landscape see [3. Faculty Regulations](#).

**Additional Comments:**

**Bachelor of Design in City Innovation Requirements**

**Type**

Completion Requirement

**A. Core Courses (75 units)**

**Complete ALL of the following Course Sets:**

- BDCI Core Courses - Junior Studio Requirement (6 units)
- BDCI Core Courses - Transscalar Studio Requirement\* (18 units)
- BDCI Core Courses - Global Citizen Requirement (15 units)
- BDCI Core Courses - Visualization Requirement (12 units)
- BDCI Core Courses - Technical Requirement (9 units)
- BDCI Core Courses - Data Science Requirement (6 units)
- BDCI Core Courses - Sustainability Requirement (6 units)
- BDCI Core Courses - Entrepreneurship Requirement (3 units)

\*Note: Students are required to complete all three scales (i.e., small, medium, and large) in these transscalar studio courses, which means completing:

- Minimum 6 units from Design 301, 304, or 401
- Minimum 6 units from Design 302, 305, or 402
- Minimum 6 units from Design 303, 306, or 403

**B. Additional course requirements - Work Integrated Learning/Capstone Design Studio Requirement (6 units)**

**Earn at least 6 credits from the following:**

- BDCI Additional Course Requirements - WIL/Capstone (6 units)

**B. Additional Course Requirements - Design in City Innovation (DCI) options (24 units)**

- Design in City Innovation options chosen from the fields of Data Science and Urban Studies, courses labelled Sustainability Studies (SUST), and courses taken to fulfill the Entrepreneurial Thinking Embedded Certificate, Health and Society Minor, or Management and Society Minor (24 units)

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Data Science for the Minor Program
- Courses Constituting the Field of Urban Studies
- Courses labelled Sustainability Studies (SUST)
- Field of Entrepreneurial Thinking
- Courses taken to fulfill the Health and Society Minor
- Courses taken to fulfill the Management and Society Minor

**C. Open Electives (15 units)**

**Earn at least 15 credits from the following:**

- Open Electives

**Additional Comments:**

**Degree Options**

**Type**

Completion Requirement

Minor Program and Embedded Certificates

**Complete ANY of the following Requirement Sets:**

- School of Architecture, Planning and Landscape - Minor Programs /Embedded Certificates

Architecture or Landscape Architecture Concentration (within the Bachelor of Design in City Innovation)

Students have the option of completing a concentration in Architecture or Landscape Architecture.

**Additional Comments:**

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ualgary.ca>

Web page URL: <https://sapl.ualgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://www.ualgary.ca/future-students/graduate/explore-programs/built-landscape-heritage-certificate-course-based>.

In addition to Faculty of Graduate Studies requirements for Admission, the Certificate requires the following:

a) Statement of Interest

A clear, concise and substantive statement of interest (1,000 words), which informs the Admissions Committee of: the applicant's reasons for pursuing the Certificate;

how the applicant's specific educational background and professional experience relates to heritage conservation.

b) Digital Portfolio

Applicants may submit a portfolio that provides examples of or illustrates the applicant's design work, professional work, research, creative thinking, community action, planning products, or graphics and visual communication. The requirements for digital portfolio submissions are found on the School of Architecture, Planning and Landscape website at:

<https://sapl.ualgary.ca/future-students/graduate>.

c) Curriculum Vitae

A current copy of the curriculum vitae/resume.

d) Reference Letters

Three reference letters.

e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); or IELTS score of 7.5; or CAEL overall score of 70, with a minimum score of 70 in each component. This requirement can also be met by completing the Academic Communication Certificate with a minimum grade of "A-" in each course.

## f) Example of writing

One example of the applicant's previous academic or professional work such as a written essay, published research paper, major academic paper, thesis, design project, or consulting report.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), students are expected to successfully complete 12 units (courses must be taken in the prescribed order):

**Complete ALL of the following Courses:**

- PLAN660 - Principles of Historic Conservation  
**AND** PLAN662 - Heritage Conservation Policy and Planning  
**AND** PLAN664 - Sustainability and Historic Preservation  
**AND** PLAN668 - Advanced Heritage Conservation Project

#### Additional Comments:

### Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

#### Other Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) is not given.

### Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Students registered in the Graduate Certificate in Built and Landscape Heritage are expected to enrol on a full-time basis and complete the program requirements within one registration year. The maximum completion time is three registration years.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

The MSc is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the MSc program as part-time students only with permission from the CMD Advisory Committee.

### Specializations:

- [Wearable T](#)

Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-master-science-thesis-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- A curriculum vitae.

f) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

15 units of coursework:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 3-unit Computer Science graduate-level course;
- 3-unit graduate-level course chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music; and
- Two 3-unit graduate-level courses.

Additional courses may be required on a case-by-case basis as determined by the Supervisor and CMD Director.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

## Time Limit

Expected completion time is two years for the MSc, and maximum completion time is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

Appointment of the Supervisor(s): CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

## Thesis Examination

In addition to the Faculty of Graduate Studies [thesis requirements](#), the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

### General Program Information

# UCalgary

The PhD is offered jointly through the Department of Computer Science, Faculty of Science; School of Architecture, Planning and Landscape; and Department of Art, Department of English, and School of Creative and Performing Arts, Faculty of Arts. For simplifying the explanations in this document and for the purposes of CMD requirements, Art, Dance, Drama, English and Music, as well as Architecture, Planning and Landscape are jointly referred to as Arts and Design.

Students may register in the PhD program as part-time students only with permission from the CMD Advisory Committee.

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## Specializations:

- Wearable T

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Location: Science A Building, Room 229

Email address: <mailto:sci.grad@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/cmd/>

## Admissions

### Program Admissions Information

Deadlines for the submission of complete applications are available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/computational-media-design-doctor-philosophy-thesis-based>.

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In addition to Faculty of Graduate Studies [admission requirements](#), the CMD program requires:

- While applicants from any discipline will be considered, undergraduate degrees in Art, Computer Science, Dance, Design, Drama, English or Music are preferred. An academic or professional background in one area is possible, but ideally applicants would have a background in two areas.
- A master's degree from an accredited/recognized institution.
- For applicants required to provide proof of proficiency in English, a minimum TOEFL score of 105 (internet-based test), a minimum IELTS score of 7.5 (minimum of 7.0 in each section), a minimum CAEL score of 70 (minimum of 70 in each component), a PTE score of 59 or higher, or a Cambridge C1 Advanced or Cambridge C2 Proficiency with a minimum score of 200 is required. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.
- A single page statement of interest. This is not a proposal, but a declaration of interest in interdisciplinary research in Art, Dance, Design, Drama, English or Music, and Computer Science.
- Applicants must submit a portfolio that provides up to ten examples of their research and creative work. This may include any combination of academic publications and reports, images, video, audio recordings, musical scores, documentation of installations, and written works. Applicants may provide a URL to portfolio items that cannot be uploaded through the application system.
- A curriculum vitae.
- Two reference letters.

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For exceptional students applying directly to the PhD program with only a bachelor's degree, all the requirements for a Master of Science apply, plus a demonstrated exceptional research and/or creative ability. These direct entry students will be considered on a case-by-case basis.

## Program Details

### Simple Requisites

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## Program/Course Requirements

### Type

Completion Requirement

### Additional Comments:

Graduate courses must be chosen in consultation with the supervisor(s) and approved by the CMD Director. In addition to the Faculty of Graduate Studies [requirements](#), the CMD program requires the following coursework:

Doctoral students must complete at least three graduate-level courses (9 units) while enrolled as a PhD student in Computational Media Design at the University of Calgary.

As agreed upon between the student and supervisory committee, breadth\* courses may be required as follows:

- 3-unit research methodology course chosen from Architecture, Planning and Landscape, Art, Computer Science, Dance, Drama, English, or Music;
- 6 units of Computer Science graduate-level courses;
- 6 units of graduate-level courses chosen from Architecture, Planning and Landscape, Art, Dance, Drama, English, or Music.

\*Alternative breadth courses that satisfy the student, the supervisor(s), the supervisory committee, and the CMD Director may be proposed in special cases.

Students are required to schedule and deliver a CMD seminar presentation on a topic related to their graduate research/creative practice.

A research proposal is required for Master's students. The proposal must be approved by both the supervisor and co-supervisor no later than twelve months after starting the program.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Students admitted to the Computational Media Program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Three units at the 500 level may be included as part of the coursework requirement but must be recommended by the supervisor(s) and approved by the CMD Director.

## Time Limit

Expected completion time for doctoral students entering with a master's degree is four years; maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All students are required to have a supervisor and a co-supervisor, with one from Computer Science and one from Arts and design. Generally, students are admitted to a specific supervisor and co-supervisor. Sometimes students are admitted to a specific lab or research area only and are assigned an interim advisor.

**Appointment of the Supervisor(s):** CMD students will have a supervisor and a co-supervisor appointed on their acceptance letter. Students may seek a change in research area or supervisor after admission. The student must find a permanent supervisor and a permanent co-supervisor within six months of the start of the program. Such a change must be satisfactory to the student, supported by the supervisors and approved by the CMD Director.

**Doctoral Supervisory Committee:** The Doctoral Supervisory Committee should be constituted by the supervisor and co-supervisor in consultation with the student and must be approved by the CMD Director and sent to the Faculty of Graduate Studies for confirmation. It will consist of the supervisor and co-supervisor, and two additional members. The two additional committee members may be external to the student's program. At least one of the members of the Supervisory Committee should have had supervisory experience at the doctoral level.

## Candidacy

In addition to the Faculty of Graduate Studies [candidacy requirements](#), the program requires:

Doctoral students must complete a written thesis proposal, a written field of study examination, and an oral examination of the thesis proposal. For complete details of the requirements, see the CMD candidacy requirements document available at <https://science.ucalgary.ca/computational-media-design/current-students/degree-requirements>.

## Thesis Examination

In addition to the Faculty of Graduate Studies [thesis requirements](#), the program requires:

A thesis that describes the research conducted and/or the body of creative work completed is required to complete the CMD program. The thesis will set the research/work in its literary and new media context and present evidence that the work is worthy of either publication or external recognition. Graduating students will have to have demonstrated skills and expertise in Computer Science and Arts and Design. CMD encourages research and creative work that incorporates aspects of both Computer Science and Arts and Design, thus there is recognition for, and appreciation of, a thesis that represents an interdisciplinary balance between the fields.

### *Scheduling the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before the supervisor schedules an examination.

### *Composition of the Examination Committee*

The Internal Examiner may be internal to the CMD program. The CMD program membership includes the set of faculty members actively engaged in the program and the supervisor/co-supervisor's academic units (i.e., the Department of Computer Science within the Faculty of Science, Department of Art and School of Creative and Performing Arts within the Faculty of Arts, or School of Architecture, Planning and Landscape).

The CMD PhD student's External Examiner will be an international expert in the research/creative practice area of the student's research. Faculty of Graduate Studies Conflict of Interest Policy applies (see <https://grad.ucalgary.ca/current-students/thesis-based-students/supervision/conflict-interest>).

## Financial Assistance

### Type

Completion Requirement

## Additional Comments:

Financial assistance may be available to qualified students. For information on awards see the [Awards and Financial Assistance](#) section of the calendar. Successful applicants may be offered departmental teaching assistantships and/or research assistantships in their offer letter.

Students applying for scholarships must submit their applications as appropriate according to the requirements of the scholarships. For the most up-to-date information, please see the [CMD website](#).

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/designing-smart-secure-communities-certificate-course-based>.

In addition to Faculty of Graduate Studies requirements for [Admission](#), the Certificate requires the following:

a) Statement of Interest

b) Curriculum Vitae

A current copy of the full curriculum vitae demonstrating relevant professional experience.

c) Reference Letters

Three reference letters.

d) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); or IELTS score of 7.5; or CAEL overall score of 70, with a minimum score of 70 in each component. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), students are expected to successfully complete 12 units (courses must be taken in the prescribed order):

Complete ALL of the following Courses:

- PLAN640 - Geography of Crime  
**AND** PLAN642 - Designing Safe Communities  
**AND** PLAN644 - Designing Smart Communities  
**AND** PLAN646 - Integrative Project

Additional Comments:

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Other Program Information

Type

Completion Requirement

Additional Comments:

## Advanced Credit

[Advanced Credit](#) is not given.

## Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Students registered in the Graduate Certificate in Designing Smart and Secure Communities are expected to complete the Certificate in one year. The maximum completion time is two registration years.

### Financial Assistance

Type

Completion Requirement

Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

General Program Information

Applications for this interdisciplinary specialization are not current being accepted.

The University offers an interdisciplinary specialization in Energy and Environmental Systems to students registered in an existing graduate program currently offered through one of the following Faculties that are affiliated with the Institute for Sustainable Energy, Environment and Economy (ISEEE):

- School of Architecture, Planning and Landscape
- Faculty of Arts
- Haskayne School of Business
- Faculty of Law
- Faculty of Science
- Schulich School of Engineering

In cases where the student's proposed research area cannot be supported through a single academic program, and which would necessitate the combination of at least two academic areas, they may seek admission and earn the EES specialization through the Interdisciplinary Graduate Program (IGP) of the Faculty of Graduate Studies.

## Admissions

### Program Admissions Information

There are no deadlines for applying for admission into the EES Specialization; however, students will only be admitted into the EES Specialization on January 1, May 1 and September 1. Students who are already enrolled in a graduate program at the University of Calgary are able to apply to the EES Specialization.

In addition to the Faculty of Graduate Studies' [admission](#) requirements, all applicants must meet the minimum admission requirements of the home graduate program and ISEEE. To apply for the specialization, students must complete an online EES specialization application form: <http://science.ucalgary.ca/iseee/student/apply-now>.

When applying to the EES specialization, students must have already applied to a home graduate program, faculty, or department and must already have a supervisor. Successful candidates must be approved for admission by both the home graduate program as well as by EES. Admission to a degree program does not guarantee entrance to the EES specialization. Likewise, admission to the EES specialization does not guarantee entrance to a degree program.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies ([see regulations](#)) and the home graduate program's requirements, students undertaking the EES specialization must successfully complete the following:

##### EES Specialization at the Master's Level

Students in the EES specialization are required to complete four courses, which include:

- Energy and Environmental Systems 601: Introduction to Energy and Environmental Systems
- Energy and Environmental Systems 607: Tools for System Analysis

The remaining two courses must be electives approved by the EES Graduate Studies Committee. These courses are intended to bolster a student's background in energy and environmental systems and/or interdisciplinary research methods, and may be taken in other faculties, schools, or departments at the University of Calgary.

Master's students must also comply with the requirements of their home graduate program. In addition to these course requirements, students must conduct research that takes an interdisciplinary approach to a real-world problem in the area of

energy and environmental systems. Students must also actively partake in EES seminars and activities, and contribute meaningfully to the interdisciplinary culture of the specialization.

## **EES Specialization at the Doctoral Level**

Students who have previously earned a master's degree with the EES specialization cannot enrol into the EES specialization as a PhD student. Doctoral students are required to take the same EESS core courses that are required at the master's level and two electives in the area of energy and environment. Doctoral students must also comply with requirements of their home graduate program.

## **EES Specialization with MGIS Degree (course-based)**

Students enrolled in the Master of Geographic Information Systems degree program who wish to earn the EES specialization will need to take three of the EES courses (Energy and Environmental Systems 601, 603, and one other). Students are not required to take Geography 683, but must take the other core courses in the MGIS program (Geography 647, 633, 639, and 681). Finally, students will still be required to fulfill the 30 units (5.0 full-course equivalents) requirement of the MGIS program, and can select the remaining three courses from Geography optional courses or EES related courses. It is not recommended that students required to complete the MGIS upgrade courses undertake the EES specialization.

## **EES Specialization with the Interdisciplinary Graduate Program (IGP)**

The course curriculum for IGP students will be determined at the IGP admission seminar. Course requirements will typically include the EES core courses, but may also include other courses to ensure adequate coverage of the relevant disciplines involved. Changes to the student's curriculum after the admission seminar will require the approval of the Supervisory Committee, IGP Director, and the Faculty of Graduate Studies.

## **Additional Program Information**

### **Type**

Completion Requirement

### **Additional Comments:**

## **Advanced Credit**

Requests for advanced credit must be made at the time of application. Credit will not be granted for course work taken as part of another completed degree/diploma or for courses taken to bring the admission GPA to the required level.

## **Credit for Undergraduate Courses**

Students are allowed to take only one 500-level course for graduate credit, subject to the approval of the EES Graduate Studies Committee. Graduate students taking a 500-level course for graduate credit will be required to complete additional assignments.

## **Time Limit**

Expected completion time for a master's degree is two years and the maximum completion time is four years.

Expected completion time for the PhD degree is four years and the maximum completion time is six years.

## **Supervisory Assignment and Required Examinations**

### **Type**

Completion Requirement

### **Additional Comments:**

## **Supervisory Assignments**

Students must meet supervisory requirements of home department.

## **Required Examinations**

Final thesis orals follow the requirements of the Faculty of Graduate Studies and the home graduate program. Students in doctoral programs must fulfill the written candidacy examination requirement of the home graduate program. All doctoral students must complete the candidacy oral examination in accordance with Faculty of Graduate Studies' regulations.

## Research Proposal Requirements

If a research proposal is required by the home department, then a copy of the proposal must be submitted to the EES Graduate Studies Committee and will be placed on file.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available on a competitive basis to all qualified full-time graduate students enrolled in the EES specialization. Students are also encouraged to seek funding opportunities through the Faculty of Graduate Studies' Open Scholarship Competition (contact the home program for application deadlines), as well as external funding agencies.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/doctor-design>.

The DDes targets mid-career design professionals, holding a professional design degree from an accredited school, and with at least seven years of professional experience in their discipline.

In addition to Faculty of Graduate Studies requirements for **Admission**, the program requires:

- a) A professional design degree from an accredited school.
- b) minimum of seven years of professional experience in discipline.
- c) Research Statement:

A research statement outlining the applicant's ability to conduct doctoral-level, creative, design practice-based research. The research statement (max 2,500 words) should include:

- the applicant's reasons for pursuing the DDes degree;
- description of the area of practice the applicant is interested in and the opportunity or problem within that area that the applicant wants to explore;
- a description of the researcher's professional background and how it prepares them to undertake their research;
- a description of the potential impact of the proposed research.

The research statement will be used by the Admissions Committee to determine if adequate supervisory resources are available. In no case will a student be admitted if an appropriate supervisor is not expected to be available.

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### d) Digital Portfolio:

A portfolio that provides examples of, or illustrates, the applicant's design work, professional work, consulting reports, policy reviews, research, creative thinking, community action, planning products, or graphics and visual communication.

### e) Curriculum Vitae:

A current copy of curriculum vitae (CV).

### f) Reference Letters

Two reference letters. These can be academic or professional references.

### g) Formal Interview:

Applicants are required to participate in a formal interview (either in person or online) with the Graduate Program Director or their designate.

### h) Proof of English Proficiency:

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; or a CAEL score of 70 with a minimum of 70 in each component. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

### i) Funding Plan:

A funding plan that demonstrates that financial resources are available for the entire program of study.

### j) Grade Point Average:

An admission grade point average (GPA) above 3.50 on a four-point scale. In some circumstances, alternate means of demonstrating academic capacity will be accepted for mature applicants who have been away from academia for an extended period of time.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements**, the program requires:

##### a) Core required courses:

##### Complete ALL of the following Courses:

- APLA680 - Design Practice Research Project Definition  
**AND** APLA682 - Strategies for Design Practice Research I  
**AND** APLA685 - Strategies for Design Practice Research II

##### b) **APLA681 Design Practice Resrch Sympsum**, typically offered twice per year.

##### c) Additional course work when recommended by the Graduate Program Director in consultation with the student's supervisor and supervisory committee.

##### d) A thesis proposal approved by the supervisory committee during a committee meeting.

##### e) A written thesis.

##### f) A gallery exhibition of the research work, publicly presented at one of the semi-annual symposia.

##### g) Successful completion of all examinations as described under 'Required Examinations'.

#### Additional Comments:

Students are expected to attend two on-site research symposia per year, for each year of their program.

In addition to Faculty of Graduate Studies thesis submission requirements, all DDes students are required to submit one bound copy of the thesis (bound in standard black cloth-covered cases, bearing the author's name, title of work, year and the School of Architecture, Planning and Landscape lettered in white), and one portable document format (.PDF) copy.

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

[Advanced Credit](#) is not available for DDes courses.

## Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the [Flexible Grade Option \(CG Grade\)](#) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limits

Students are expected to enrol on a full-time basis and complete the DDes within three years. The Faculty of Graduate Studies requires that a maximum completion time is six registration years. See [Time Limits](#).

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

In the first term of the program, each student will be assigned a supervisor by the Graduate Program Director.

Within three months of confirming their supervisor, DDes students must establish, in consultation with their supervisor, a supervisory committee. The supervisory committee must include at least two other members in addition to the supervisor and co-supervisor, if applicable.

## Required Examinations

In addition to the Faculty of Graduate Studies requirements for [Candidacy](#) and [Thesis Examinations](#), the School of Architecture, Planning and Landscape requires:

#### Candidacy

Doctoral students are required to complete all candidacy requirements. For details, see DDes Candidacy Requirements: <https://sapl.ualgary.ca/future-students/graduate-research/doctor-design>.

## *Thesis Examination*

Final thesis oral examinations are open.

## *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

## *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## **Financial Assistance**

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the **Awards and Financial Assistance** section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website <https://grad.ucalgary.ca/awards>.

## **Overview**

### **General Program Information**

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

In Canada, the Canadian Architectural Certification Board (CACB) is the sole agency authorized by the Regulatory Organization of Architecture in Canada (ROAC) to accredit Canadian professional degree programs in architecture for the purposes of architectural licensure.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## **Admissions**

### **Program Admissions Information**

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/environmental-design-medes>.

The MEDes is a research degree that typically targets graduates of professional programs in architecture, planning and landscape architecture. In addition to Faculty of Graduate Studies requirements for **Admission**, the program requires:

#### a) Research Statement

A clear, concise and substantive research statement (1,000 to 1,500 words), which informs the Admissions Committee of:  
the applicant's reasons for pursuing the MEDes degree

how the applicant's specific educational background and professional and personal experience relates to their proposed thesis project

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the applicant's thesis research interests and how they align with an existing research group or individual researcher within the School of Architecture, Planning and Landscape

any communication the applicant has had with potential supervisors

It is highly recommended that applicants communicate with potential supervisors prior to making an application to ensure that their proposed project aligns with one of the School's research areas.

### b) Digital Portfolio

A portfolio that provides examples of or illustrates the applicant's design work, professional work, research, creative thinking, community action, planning products, or graphics and visual communication.

### c) Curriculum Vitae

A current copy of curriculum vitae (CV).

### d) Reference Letters

Three reference letters, of which at least two should be academic.

### e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); or an IELTS score of 7.5; or a CAEL overall score of 70 with a minimum score of 70 in each component. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

### f) Example of Writing

At least one example of the applicant's previous academic or professional work such as a written essay, published research paper, major academic paper, thesis, or consulting report.

### g) Funding Plan

A funding plan that demonstrates that financial resources are available for the entire program of study.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements**, the MEDes must include completion of the following academic requirements:

##### a) Core required courses:

##### Complete ALL of the following Courses:

- APLA670 - Design Research Methods  
**AND** APLA672 - Design Research Writing  
**AND** APLA674 - Design Innovation

**b) A minimum of 3 units of elective credit at the graduate level that is relevant to the student's area of research, chosen in consultation with their supervisor.**

**c) A thesis proposal approved by the supervisor (or supervisory committee for those students who have chosen to have a committee).**

**d) A written thesis.**

e) Thesis examination.

**Additional Comments:**

Attendance at orientation for first year students is expected.

In addition to Faculty of Graduate Studies thesis submission requirements, all MEDes students are required to submit one bound copy of the thesis (bound in standard orange cloth-covered cases, bearing the author's name, title of work, year and the School of Architecture, Planning and Landscape lettered in white), and one portable document format (.PDF) copy.

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a Reappraisal of Academic Assessments (Final Grades) within 5 business days of the start of the subsequent term.

Reappraisal of Academic Assessments (Final Grades) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

## Advanced Credit

A student may apply for advanced credit for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See Advanced Credit.

## Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Only undergraduate courses numbered 500-599 may be considered for graduate-level credit and are subject to approval by the Program Director.

## Time Limit

Given the post-professional nature of the MEDes degree, students are expected to complete their degrees within four terms. Note that Faculty of Graduate Studies regulations require that students must complete all degree requirements within four registration years. See Time Limits.

### Supervisory Assignments and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

At the time of admission, each MEDes student will be assigned a supervisor.

MEDes students are only required to have one supervisor. MEDes students may, in consultation with their supervisor, choose to have a committee. If so, then within three months of admission, MEDes students must establish, in consultation with their supervisor, a supervisory committee. The supervisory committee must include at least one other member in addition to the supervisor and co-supervisor, if applicable. This additional member must be from outside of the School of Architecture, Planning and Landscape.

## Required Examinations

### *Thesis Examination*

In addition to the Faculty of Graduate Studies requirements for **Thesis Examinations**, the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Thesis Proposal Requirements

The supervisor (or the supervisory committee, if applicable) will approve final thesis proposals. Thesis proposals should clearly describe the project in terms of Title, Objectives, Background, Methodology and Expected Outcomes. Students are encouraged to include an explicit interventionist or problem-solving component.

## Financial Assistance

### **Type**

Completion Requirement

### **Additional Comments:**

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the **Awards and Financial Assistance** section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/environmental-design-phd>.

In addition to Faculty of Graduate Studies requirements for **Admission**, the program requires:

a) Research Proposal

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A research proposal that describes the nature of the thesis research the applicant expects to undertake. This will be used by an admissions committee as an indicator of the applicant's ability to conduct doctoral-level research and to determine if adequate supervisory resources are available. Only if such resources are available will the student be admitted. Please note that this research statement (maximum of 1500 words) must include the following sections: Background, research questions, literature review, research methodology, and broader impacts of the proposed research. The research statement should indicate potential supervisors and/or committee members, and whether they have been contacted by the applicant.

### b) Digital Portfolio

A portfolio that provides examples of or illustrates the applicant's design work, professional work, research, creative thinking, community action, planning products, or graphics and visual communication.

### c) Curriculum Vitae

A current copy of curriculum vitae (CV).

### d) Reference Letters

Three reference letters, of which at least two should be academic.

### e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test); an IELTS score of 7.5; or a CAEL score of 70 with a minimum of 70 in each component. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

### f) Example of Writing

At least one example of the applicant's previous academic or professional work, such as a written essay, published research paper, major academic paper, thesis, or consulting report.

### g) Grade Point Average

An admission grade point average (GPA) above 3.50 on a four-point scale.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies **requirements**, the PhD must include completion of the following academic requirements:

##### a) Core required courses:

##### Complete ALL of the following Courses:

- APLA670 - Design Research Methods  
**AND** APLA672 - Design Research Writing  
**AND** APLA674 - Design Innovation

##### Additional Comments:

b) A minimum of 3 units of elective credit at the graduate level that is relevant to the student's area of research, chosen in consultation with their supervisor.

c) Additional course work when recommended by the Graduate Program Director in consultation with the student's supervisor and supervisory committee.

d) A thesis proposal approved by the supervisory committee during a committee meeting.

e) A written thesis.

f) Successful completion of all examinations.

Attendance at orientation for first year students is expected.

In addition to Faculty of Graduate Studies thesis submission requirements, all PhD students are required to submit one bound copy of the thesis (bound in standard black cloth-covered cases, bearing the author's name, title of work, year and the School of Architecture, Planning and Landscape lettered in white), and one portable document format (.PDF) copy.

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

A student may apply for advanced credit for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See [Advanced Credit](#).

### Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Students are expected to enroll on a full-time basis and complete the degree requirements within four registration years. Maximum completion time is six registration years. See [Time Limits](#).

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

At the time of admission, each student will be assigned an interim supervisor. The Graduate Program Director must approve a permanent supervisor no later than twelve months after first registration.

Within three months of confirming their supervisor, PhD students must establish, in consultation with their supervisor, a supervisory committee. The supervisory committee must include at least two members in addition to the supervisor and co-supervisor, if applicable. Of these two members, at least one must be from outside of the School of Architecture, Planning and Landscape.

### Required Examinations

In addition to the Faculty of Graduate Studies requirements for [Candidacy](#) and [Thesis Examinations](#), the School of Architecture, Planning and Landscape requires:

## Candidacy

Doctoral students are required to complete all candidacy requirements. For details, see [SAPL Candidacy Requirements](#).

## Thesis Examination

Final thesis oral examinations are open.

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Please refer to the SAPL Funding Policy: <https://sapl.ucalgary.ca/future-students/admissions/entrance-scholarships-awards>.

## Overview

### General Program Information

**Location:** Professional Faculties 2182

**Student Information:** 403.220.7070

**Fax number:** 403.284.4399

**Email address:** [info@salp.ucalgary.ca](mailto:info@salp.ucalgary.ca)

**Website:** [sapl.ucalgary.ca](http://sapl.ucalgary.ca)

### Bachelor of Design in City Innovation (BDCI)

The Bachelor of Design in City Innovation is a four-year degree that enables students to develop design and design thinking skills to address the complex issues that affect our cities and the broader built environment. Graduates can undertake further studies in a variety of professional programs including architecture, planning, landscape architecture, law, social work, public policy, public health, and data science as well as pursue careers in multiple disciplines in the private, public, and non-profit sectors that focus on creating positive change in the physical and social infrastructure of cities.

### Landscape Architecture Concentration (within the Bachelor of Design in City Innovation)

The courses required for the Landscape Architecture Concentration are equivalent to the courses in the Master of Landscape Architecture (MLA) Foundation Year and constitute the prerequisites for the University of Calgary's two-year MLA degree. Completion of this Concentration does not guarantee admission to the MLA or to other degree programs in the School of Architecture, Planning and Landscape.

Students interested in pursuing the MArch or MLA can refer to the School of Architecture, Planning and Landscape for additional admission information.

## Admissions

### Program Admissions Information

For School of Architecture, Planning and Landscape admission information see [3.1 Admissions](#).

## Program Details

### Simple Requisites

#### School of Architecture, Planning and Landscape - Graduation Requirements

##### Type

Completion Requirement

##### Graduation Requirements

Within the 120 units Bachelor of Design in City Innovation degree, all students must adhere to the applicable School of Architecture, Planning and Landscape Graduation requirements and must complete the Bachelor of Design in City Innovation degree (Landscape Architecture Concentration) Requirements (listed under the BDCI (LAND) Requirements section):

**Complete ALL of the following Requirement Sets:**

- School of Architecture, Planning and Landscape - Graduation Requirements

For other regulations related to the School of Architecture, Planning and Landscape see [3. Faculty Regulations](#).

##### Additional Comments:

#### Bachelor of Design in City Innovation (Landscape Architecture Concentration)

##### Type

Completion Requirement

##### A. Core Courses (75 units)

**Complete ALL of the following Course Sets:**

- BDCI Core Courses - Junior Studio Requirement (6 units)
- BDCI Core Courses - Transscalar Studio Requirement\* (18 units)
- BDCI Core Courses - Global Citizen Requirement (15 units)
- BDCI Core Courses - Visualization Requirement (12 units)
- BDCI Core Courses - Technical Requirement (9 units)
- BDCI Core Courses - Data Science Requirement (6 units)
- BDCI Core Courses - Sustainability Requirement (6 units)
- BDCI Core Courses - Entrepreneurship Requirement (3 units)

\*Note: Students are required to complete all three scales (i.e., small, medium, and large) in these transscalar studio courses, which means completing:

- Minimum 6 units from Design 301, 304, or 401
- Minimum 6 units from Design 302, 305, or 402
- Minimum 6 units from Design 303, 306, or 403

##### B. Landscape Architecture Concentration Requirements (30 units)

**Complete ALL of the following Course Sets:**

- BDCI Landscape Architecture Concentration Requirements - Studio Requirement (18 units)
- BDCI Landscape Architecture Concentration Requirements - Visualization Requirement (3 units)
- BDCI Landscape Architecture Concentration Requirements - Technical Requirement (3 units)
- BDCI Landscape Architecture Concentration Requirements - School of Architecture, Planning, Landscape and Design Electives (6 units)

##### C. Open Electives (15 units)

**Earn at least 15 credits from the following:**

- Open Electives

Additional Comments:

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

In Canada, the Canadian Architectural Certification Board (CACB) is the sole agency authorized by the Regulatory Organization of Architecture in Canada (ROAC) to accredit Canadian professional degree programs in architecture for the purposes of architectural licensure.

Location: City Building Design Lab

616 Macleod Trail SE

Calgary, Alberta T2G 2M2

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: [info@sapl.ucalgary.ca](mailto:info@sapl.ucalgary.ca)

Web page URL: [sapl.ucalgary.ca](http://sapl.ucalgary.ca)

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/architecture-march-course>.

Prospective applicants are advised to use opportunities within their four-year recognized university undergraduate degree studies to develop knowledge in at least one and possibly more than one of the following areas: design, humanities, social sciences, arts, engineering, biological or earth sciences – including, wherever possible, studio, laboratory and collaborative learning experiences.

In addition to Faculty of Graduate Studies requirements for **Admissions**, the program requires:

a) Architectural Image Paragraph

Applicant to provide an image or photograph that holds architectural significance and write a paragraph (maximum 500 words) as to why they chose it. The words should clarify their choice and explain the relevance to the field.

b) Digital Portfolio

Candidates for MArch must provide evidence of original and/or creative work in any field or medium, and provide in writing a brief description of the work. The requirements for digital portfolio submissions are found on the School of Architecture, Planning and Landscape website at: <https://sapl.ucalgary.ca/future-students/graduate/master-architecture-march>.

c) Curriculum Vitae

A current copy of curriculum vitae (CV).

d) Reference Letters

Three reference letters, of which at least two should be academic.

e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a TOEFL score of 105 (Internet-based test); or an IELTS score of

7.5; a CAEL score of 70 (with no section less than 70); a PTE with a minimum score of 59; a Duolingo score of 145 (with no subscore below 125); or a Cambridge C1/C2 Proficiency score of 200. This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

Note: Applicants must demonstrate successful completion of one or more years of undergraduate-level coursework in four areas: Design, Technology, Graphics, and History/Theory (equivalent to the courses taken in the minor in Architectural Studies, or in the MArch Foundation year). In order to complete these prerequisite requirements, applicants may be admitted to the MArch Foundation or qualifying year. An assessment of these prerequisite requirements will be made by an admissions committee and applicants will be informed in offers of admission which, if any, courses at the Foundation level will be required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

The Master of Architecture program is structured around a core studio sequence. Required courses and electives make up the remainder of the program. In addition to the Faculty of Graduate Studies **requirements**, successful completion of the MArch must include the following academic requirements:

Foundation Year (Qualifying Year) - 31.5 units

#### Complete ALL of the following Courses:

- ARCH500 - Sustainability in the Built Environment  
**AND** ARCH502 - History of Architecture and Human Settlements I - Premodern Traditions of the World  
**AND** ARCH504 - Graphics Workshop I  
**AND** ARCH506 - Studio I in Architecture  
**AND** ARCH508 - Building Science and Technology I  
**AND** ARCH510 - History of Architecture and Human Settlements II - The Rise of Modernity, 1750 to Present  
**AND** ARCH512 - Graphics Workshop II  
**AND** ARCH514 - Studio II in Architecture
- ARCH672 - Experiential Learning in Architecture  
**OR** ARCH674 - Experiential Learning in Architecture

a) 54 units of core required courses:

#### Complete ALL of the following Courses:

- ARCH600 - Structures for Architects I  
**AND** ARCH602 - Introduction to Design Theories  
**AND** ARCH604 - Leadership in Architecture  
**AND** ARCH606 - Intermediate Architectural Design Studio  
**AND** ARCH608 - Architectural Lighting Design  
**AND** ARCH610 - Structures for Architects II  
**AND** ARCH612 - Building Science and Technology II  
**AND** ARCH614 - Environmental Control Systems  
**AND** ARCH616 - Comprehensive Architectural Design Studio  
**AND** ARCH618 - Architectural Professional Practice  
**AND** ARCH675 - Urban Systems  
**AND** ARCH688 - City Studio in Architecture  
**AND** ARCH700 - Senior Research Studio in Architecture I  
**AND** ARCH702 - Senior Research Studio in Architecture II

b) 3 units from:

Earn at least 3 credits from the following:

- ARCH692 - Gillmor Theory Seminar  
OR ARCH696 - Somerville Design Charrette  
OR ARCH698 - Taylor Workshop

Note: upon completion of the requirement, any of the courses listed in b) may be taken or repeated for elective credit.

c) 9 units from:

Earn at least 9 credits from the following:

- ARCH680 - Special Topics in Architecture  
OR ARCH682 - Special Topics in Architecture  
OR ARCH684 - Special Topics in Architecture  
OR ARCH686 - Topics Course in Architecture

d) 3 units from:

Earn at least 3 credits from the following:

- ARCH690 - Studio Research Selective  
OR ARCH694 - Studio Research Selective

e) 3 units from:

Earn at least 3 credits from the following:

- ARCH670 - Experiential Learning in Architecture (Inactive)  
OR ARCH672 - Experiential Learning in Architecture  
OR ARCH674 - Experiential Learning in Architecture  
OR ARCH676 - Experiential Learning in Architecture

f) 3 units of elective credits from other courses offered by SAPL or the University of Calgary at the 500-level or higher that relate to individual interests in Architecture.

Additional Comments:

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

### Additional Program Information

#### Type

Completion Requirement

Additional Comments:

## Advanced Credit

A student may apply for [Advanced Credit](#) for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See Advanced Credit.

Course Exemptions: Students registered in a graduate degree program may receive an exemption from a specific course if they can demonstrate successful completion of an equivalent course. In order to be eligible for an exemption, the student must

provide original transcripts, course outlines and samples of course assignments which will be assessed for academic equivalency. Courses for which exemptions are being sought must be from a recognized institution, and they must be graded courses with a minimum grade of "B-". Students granted an exemption from a course may be required to take another, equally-weighted, course to satisfy credit-hour requirements for their program.

### Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Additional Requirements

A laptop computer is required for all course-based degree programs in the School of Architecture, Landscape and Planning. Further information pertaining to specifications will be sent out to newly-admitted students in the summer term prior to the commencement of their studies.

Attendance at orientation for first year students is required.

### Credit for Undergraduate Courses

Only undergraduate courses numbered 500-599 may be considered for graduate-level credit and are subject to approval by the Associate Dean (Architecture).

### Time Limits

Students are expected to enrol on a full-time basis and complete the degree requirements within two registration years (excluding the Foundation year). Maximum completion time is six registration years. See **Time Limits**.

### Supervisory Assignments

Upon admission, each MArch student will be advised by the Graduate Program Administrator regarding Program of Study development.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the **Awards and Financial Assistance** section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

Normally, combined degree programs must be completed full-time during the day.

Location: Mathison Hall, Room 424

# UCalgary

MBA Program: 403.220.3808

Fax: 403.282.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba/combined>

## Admissions

### Program Admissions Information

Admission deadlines are available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

An applicant to a combined MBA program must meet the admission requirements of the MBA program, and make a separate application for admission to the other program. The respective Combined Program Committee will review each application.

Please note that receiving admission to both individual programs does not guarantee admission to the combined program.

For MBA admission requirements, see [Master of](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the School of Architecture, Planning and Landscape and the Haskayne School of Business require :

Students admitted to the MPlan/MBA will focus on courses for the MBA during the first year and on MPlan courses in years two and three. Typically, the Real Estate Studies specialization will be completed in year four. Course requirements include:

a) MBA courses (54 units):

**Complete ALL of the following Requirement Sets:**

- MBA Required Courses

plus:

- four elective courses (12 units total) in the Real Estate Studies specialization.

b) MPlan courses (57 units of core required courses):

**Complete ALL of the following Course Sets:**

- MBA/MPlan combined -Planning courses

plus:

- three elective courses (9 units total) in the Real Estate Studies specialization approved by SAPL, Master of Planning program.

#### Additional Comments:

#### Additional Program Information

##### Type

## Completion Requirement

### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process to the MBA program. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Students admitted to a combined MBA program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any MBA course that is applicable to their degree; or apply any course awarded a grade of CG towards their MBA graduation requirements.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Time Limit

MBA: six years

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape does not formally offer a part-time option.

Location: Professional Faculties 2182

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ucalgary.ca>

Web page URL: <https://sapl.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/landscape-architecture-mla-course>.

Prospective applicants are advised to use opportunities within their four-year recognized university undergraduate degree studies to develop knowledge in at least one and possibly more than one of the following areas: design, humanities, social science, arts, engineering, biological or earth sciences – including wherever possible studio, laboratory and collaborative learning experiences.

In addition to the Faculty of Graduate Studies requirements for [Admission](#), the program requires:

a) Statement of Interest

A clear, well-written statement of interest which describes the applicant's interest in landscape architecture and how the applicant's specific educational background and professional or personal experience relates to Landscape Architecture as a field of study (maximum two pages).

b) Digital Portfolio

Evidence of original and/or creative work in any field or medium. This could include design work, professional work, research, creative ability, or ideas related to their statement of intent or interests in Landscape Architecture. The requirements for digital portfolio submissions are found on the School of Architecture, Planning and Landscape website at:

<https://sapl.ucalgary.ca/future-students/admissions/mla>.

c) Curriculum Vitae

A current copy of curriculum vitae (CV).

d) Reference Letters

Three reference letters, of which at least two should be academic.

e) Proof of English Proficiency

For applicants who are required to prove proficiency in English, a TOEFL score of 105 (Internet-based test); or an IELTS score of 7.5; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 59; a Duolingo score of 145 (with no subscore below 125); or a Cambridge C1/C2 Proficiency score of 200. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

Note: Applicants with previous related design degrees (e.g. a Bachelor of Landscape Architecture) may have some or all of the foundation year courses waived. Applications will be evaluated on a case-by-case basis, this review will require supporting documentation such as course outlines. An assessment of these prerequisite requirements will be made by an admissions committee and applicants will be informed in offers of admission which, if any, courses at the Foundation level will be required.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

The Master of Landscape Architecture program is structured around a core studio sequence. Required courses and electives make up the remainder of the program. In addition to the Faculty of Graduate Studies [requirements](#), successful completion of the MLA must include the following academic requirements:

Foundation Year (Qualifying Year) 30 units

**Complete ALL of the following Courses:**

- LAND600 - Landscape Architecture History and Theory  
**AND** LAND604 - Landscape Architecture Studio I - Foundation  
**AND** ACCT200 - ACCT 200 (Inactive)  
**AND** PLAN600 - Landscape Ecology and Planning  
**AND** PLAN602 - Computer Modelling for Urban Design  
**AND** PLAN606 - Site Planning Studio  
**AND** PLAN608 - Geographic Information Systems for Environmental Design  
**AND** PLAN626 - Urban Design Theory

a) 54 units of core required courses:

**Complete ALL of the following Courses:**

- ARCH675 - Urban Systems
- AND** LAND602 - Plants in the Landscape
- AND** LAND608 - Landscape Responses to Climate Change, Energy and Water
- AND** LAND610 - Green Infrastructure/Winter City Design
- AND** LAND612 - Site Technology II: Construction and Materials
- AND** LAND614 - Landscape Architecture Studio II - Intermediate
- AND** LAND616 - Professional Practice and Project Management for Landscape Architecture
- AND** LAND618 - Advanced Graphics in Landscape Architecture
- AND** LAND620 - Synthesis Studio in Landscape Architecture
- AND** LAND700 - Regional Landscape Systems Studio
- AND** LAND702 - Landscape Architecture Studio III - Advanced
- AND** PLAN612 - Urban Infrastructure and Land Use
- AND** PLAN616 - Urban Design Studio

b) 3 units from:

**Complete ANY of the following Courses:**

- LAND670 - Experiential Learning in Landscape Architecture
- OR** LAND672 - Experiential Learning in Landscape Architecture
- OR** LAND674 - Experiential Learning in Landscape Architecture
- OR** LAND676 - Experiential Learning in Landscape Architecture

c) 6 units of elective credits from other courses offered by SAPL or the University of Calgary at the 500-level or higher that relate to individual interests in Landscape Architecture.

**Additional Comments:**

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a [Reappraisal of Academic Assessments \(Final Grades\)](#) within 5 business days of the start of the subsequent term.

[Reappraisal of Academic Assessments \(Final Grades\)](#) in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

A student may apply for advanced credit for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See Advanced Credit.

Course Exemptions: Students registered in a graduate degree program may receive an exemption from a specific course if they can demonstrate successful completion of an equivalent course. To be eligible for an exemption, the student must provide original transcripts, course outlines and samples of course assignments which will be assessed for academic equivalency.

Courses for which exemptions are being sought must be from a recognized institution, and they must be graded courses with a minimum grade of "B-". Students granted an exemption from a course may be required to take another, equally-weighted, course to satisfy credit-hour requirements for their program.

### Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Additional Requirements

A laptop computer is required for all course-based degree programs in the School of Architecture, Planning and Landscape. Further information pertaining to specifications will be sent out to newly-admitted students in the summer term prior to the commencement of their studies.

Attendance at orientation for first year students is required.

### Credit for Undergraduate Courses

Only undergraduate courses numbered 500-599 may be considered for graduate-level credit and are subject to approval by the Associate Dean (Planning and Landscape).

### Time Limits

Students are expected to enroll on a full-time basis and complete the degree requirements within two registration years (excluding the Foundation Year). Maximum completion time is six registration years. See **Time Limits**.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the **Awards and Financial Assistance** section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

The School of Architecture, Planning and Landscape and the Haskayne School of Business also offer a combined degree, Master of Planning/Master of Business Administration (MPlan/MBA):

- **Combined M**

The School does not formally offer a part-time option. All students will be considered full-time and register during the Fall, Winter and Spring terms (September to June) with a regularly scheduled summer break in July and August.

In Canada, the Canadian Architectural Certification Board (CACB) is the sole agency authorized by the Regulatory Organization of Architecture in Canada (ROAC) to accredit Canadian professional degree programs in architecture for the purposes of architectural licensure.

Location: Professional Faculties 2182

# UCalgary

Student Information: 403.220.7070

Fax: 403.284.4399

Email address: <mailto:info@sapl.ualgary.ca>

Web page URL: <https://sapl.ualgary.ca/>

## Admissions

### Program Admissions Information

Deadline for submission of complete applications is available on the Future Students website:

Master of Planning: <https://grad.ualgary.ca/future-students/explore-programs/planning-mplan-course>.

Admission to the Master of Planning is a competitive process. Applicants must meet minimum Faculty of Graduate Studies requirements for [Admission](#) (including a 3.00 GPA). In addition to Faculty of Graduate Studies requirements, the program requires:

- a) A clear, well-written statement of interest which describes the applicant's interest in planning and how the applicant's specific educational background and professional or personal experience relates to Planning as a field of study.
- b) At least one example of the applicant's previous academic or professional writing, such as a written essay, published research paper, major academic paper, design project or consulting report.
- c) A portfolio that includes examples of the applicant's design work or design thinking, including creative work or ideas, community action, planning or design products, or graphics and visual communication.

The requirements for digital portfolio submissions are found in the School of Architecture, Planning and Landscape website at:

<https://sapl.ualgary.ca/future-students/admissions/mplan>.

d) Three reference letters, of which at least two should be academic.

e) A current copy of curriculum vitae (CV).

f) For applicants who are required to prove proficiency in English, a TOEFL score of 105 (Internet-based test); or an IELTS score of 7.5; a CAEL score of 70 with no section less than 70; a PTE with a minimum score of 59; a Duolingo score of 145 (with no subscore below 125); or a Cambridge C1/C2 Proficiency score of 200. This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

### Master of Planning/Master of Business Administration (MPlan/MBA)

An applicant to the combined MPlan/MBA program must be admitted to the MPlan program and make separate application for, and be admitted by, the MBA program. The respective Combined Program Committee will review each application.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

The Master of Planning program is structured around a core studio sequence. Required courses and electives make up the remainder of the program. In addition to the Faculty of Graduate Studies [requirements](#), successful completion of the MPlan must include the following academic requirements:

- a) 57 units of core required courses:

**Complete ALL of the following Courses:**

- ARCH675 - Urban Systems
- AND** PLAN600 - Landscape Ecology and Planning
- AND** PLAN602 - Computer Modelling for Urban Design
- AND** PLAN604 - Planning History and Theory
- AND** PLAN606 - Site Planning Studio
- AND** PLAN608 - Geographic Information Systems for Environmental Design
- AND** PLAN610 - Community Planning Studio
- AND** PLAN612 - Urban Infrastructure and Land Use
- AND** PLAN616 - Urban Design Studio
- AND** PLAN618 - Regional Planning Studio
- AND** PLAN620 - Planning and Public Engagement
- AND** PLAN622 - Project Management for Planners
- AND** PLAN626 - Urban Design Theory
- AND** PLAN628 - Professional Planning Practice
- AND** PLAN630 - Advanced Professional Planning Studio

b) 3 units of elective credits from:

**Complete ANY of the following Courses:**

- PLAN614 - Real Estate Development and Finance
- OR** PLAN624 - Housing and Neighbourhood Change

c) 3 units from:

**Complete ANY of the following Courses:**

- PLAN670 - Experiential Learning in Planning
- OR** PLAN672 - Experiential Learning in Planning
- OR** PLAN674 - Experiential Learning in Planning
- OR** PLAN676 - Experiential Learning in Planning

d) 3 units of elective credits from other courses offered by SAPL or the University of Calgary at the 500-level or higher that relate to individual interests in Planning.

## Master of Planning/Master of Business Administration (MPlan/MBA) Combined Degree

Students admitted to the MPlan/MBA will focus on courses for the MBA during the first year and on MPlan courses in years two and three. Typically, the Real Estate Studies specialization will be completed in year four. Course requirements include:

a) MBA courses (54 units):

**Complete ALL of the following Courses:**

- ACCT601 - Introductory Financial Accounting
- AND** ACCT603 - Management Accounting
- AND** SGMA603 - Global Environment of Business
- AND** BTMA601 - Business Technology Management
- AND** ENTI601 - Entrepreneurial Thinking
- AND** FNCE601 - Managerial Finance
- AND** MGST611 - Managerial Economics
- AND** MGST613 - Managerial Decision Modeling
- AND** MGST615 - Strategic Business Analysis
- AND** MKTG601 - Marketing Management
- AND** OPMA601 - Operations Management
- AND** OBHR601 - Organizational Behaviour

**AND OBHR621 - Advanced Leadership**  
**AND SGMA601 - Strategic Management I**

plus four elective courses (12 units total) in the Real Estate Studies specialization.

b) MPlan courses (57 units of core courses):

**Complete ALL of the following Courses:**

- **ARCH675 - Urban Systems**
  - AND PLAN600 - Landscape Ecology and Planning**
  - AND PLAN602 - Computer Modelling for Urban Design**
  - AND PLAN604 - Planning History and Theory**
  - AND PLAN606 - Site Planning Studio**
  - AND PLAN608 - Geographic Information Systems for Environmental Design**
  - AND PLAN610 - Community Planning Studio**
  - AND PLAN612 - Urban Infrastructure and Land Use**
  - AND PLAN616 - Urban Design Studio**
  - AND PLAN618 - Regional Planning Studio**
  - AND PLAN620 - Planning and Public Engagement**
  - AND PLAN622 - Project Management for Planners**
  - AND PLAN626 - Urban Design Theory**
  - AND PLAN628 - Professional Planning Practice**
  - AND PLAN630 - Advanced Professional Planning Studio**

plus three elective courses (9 units total) in the Real Estate Studies specialization approved by SAPL, Master of Planning program.

**Additional Comments:**

## Reappraisal of Academic Assessments (Final Grades)

Students enrolled in SAPL graduate credentials must request a **Reappraisal of Academic Assessments (Final Grades)** within 5 business days of the start of the subsequent term.

**Reappraisal of Academic Assessments (Final Grades)** in SAPL graduate credentials must be completed at least one day before the drop date of the subsequent semester.

## Additional Program Information

Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

A student may apply for advanced credit for previous courses that have not been used to satisfy the requirements of any other degree or diploma program. See **Advanced Credit**.

Course Exemptions: Students registered in a graduate degree program may receive an exemption from a specific course if they can demonstrate successful completion of an equivalent course. In order to be eligible for an exemption, the student must provide original transcripts, course outlines and samples of course assignments which will be assessed for academic equivalency. Courses for which exemptions are being sought must be from a recognized institution, and they must be graded courses with a minimum grade of "B-". Students granted an exemption from a course may be required to take another, equally-weighted, course to satisfy credit-hour requirements for their program.

## Flexible Grade Option (CG Grade)

Students admitted to the School of Architecture, Planning and Landscape will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may choose the Flexible Grade Option (CG Grade) for courses outside of SAPL that permit the CG Grade and are taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Additional Requirements

A laptop computer is required for all course-based degree programs in the School of Architecture, Landscape and Planning. Further information pertaining to specifications will be sent out to newly-admitted students in the summer term prior to the commencement of their studies.

Attendance at orientation for first year students is required.

## Credit for Undergraduate Courses

Only undergraduate courses numbered 500-599 may be considered for graduate-level credit and are subject to approval by the Associate Dean (Planning and Landscape).

## Time Limit

Students registered in the Master of Planning program are expected to enroll on a full-time basis and complete the degree requirements within two registration years. Maximum completion time is six registration years. See [Time Limits](#).

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to highly qualified students but cannot be guaranteed. For information on admission and academic awards, see the [Awards and Financial Assistance](#) section of this calendar, the SAPL website and the Awards Database on the Faculty of Graduate Studies website.

## Overview

### General Program Information

The MSc degree in Sustainable Energy Development (SEDV) is an interdisciplinary offering by the School of Public Policy in collaboration with the Haskayne School of Business, Schulich School of Engineering, School of Architecture, Planning, and Landscape, and the Faculty of Law. This interdisciplinary, comprehensive, and professional graduate program provides a holistic approach to energy and environmental management through a cross section of courses taught by faculty from across the university.

This is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: Downtown Campus

Program number: 403.220.2013

Email address: <mailto:sedv@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/sustainableenergy>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/sustainable-energy-development-master-science-course-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the SEDV Program requires:

- Letter of intent of no more than 1000 words, addressing four questions provided on the SEDV admissions [website](#). Each question must be answered in no more than 250 words.
- A current curriculum vitae.
- Two years of professional work experience after graduation.
- Two reference letters: one academic and one professional.

Please refer to our [website](#) for detailed instructions and templates.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), SEDV requires successful completion of 42 units consisting of the following:

33 units of core courses:

**Complete ALL of the following Courses:**

- SEDV601 - Energy Systems I  
**AND** SEDV603 - Energy Systems II  
**AND** SEDV605 - Indigenous Peoples and Sustainability in Energy Development  
**AND** SEDV613 - Energy Economics and Finance  
**AND** SEDV615 - Environmental Impact Assessment in the Energy Sector  
**AND** SEDV619 - Environmental Law in the Energy Sector  
**AND** SEDV621 - Environmental Management Tools in the Energy Sector  
**AND** SEDV623 - Strategic Environmental Planning for Energy Organizations  
**AND** SEDV631 - Life Cycle Sustainability Assessment in the Energy Sector  
**AND** SEDV633 - Energy and Climate Policy  
**AND** SEDV635 - Fundamentals of Water, Air, and Land Pollution

6 units chosen from:

**Complete ANY of the following Courses:**

- SEDV698 - Topics in Energy and the Environment I  
**AND** SEDV699 - Topics in Energy and the Environment II

3 unit capstone project:

**Complete ALL of the following Courses:**

- SEDV640 - Capstone Project I: Research Design  
**AND** SEDV641 - Capstone Project II: Proposal Development  
**AND** SEDV642 - Capstone Project III: Research Exploration and Examination

The work completed in this set of courses is considered equivalent to a Major Research Project. These courses must be taken

immediately after each other. The project work must be interdisciplinary, reflecting a minimum of 3 areas of study, with energy and environment as the two anchors.

**Additional Comments:**

Students will have the opportunity to participate in professional development seminars, experiential learning workshops, and field trips to local energy related sites. Attendance and participation in such activities is expected.

**Additional Program Information****Type**

Completion Requirement

**Additional Comments:****Advanced Credit**

The SEDV Program does not grant advanced credit for courses completed prior to admission.

**Flexible Grade Option (CG Grade)**

The Master of Science in Sustainable Energy Development program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

**Credit for Undergraduate Courses**

The SEDV program does not grant advanced credit for undergraduate courses.

**Time Limit**

The SEDV program commences annually in May, which is the only intake. As a cohort-based program, the expectation is for students to complete courses as timetabled for their cohort.

The expected completion time is 16 months for full-time studies; however, the maximum permitted time is 6 years.

**Financial Assistance****Type**

Completion Requirement

**Additional Comments:**

For information on graduate funding, please see Financing - SEDV | Haskayne School of Business | University of Calgary.

## Overview

### General Program Information

Website: [ucalgary.ca/sustainability/certificate](https://ucalgary.ca/sustainability/certificate)

Email: [sustainability.cert@ucalgary.ca](mailto:sustainability.cert@ucalgary.ca)

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

## Admissions

### Program Admissions Information

Students may apply for a change of program to enter the certificate program through their **Student Centre**. Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate. Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

## Program Details

### Simple Requisites

#### Completion Requirement

##### Type

Completion Requirement

Completion Requirement

**Complete ALL of the following Requirement Sets:**

- Embedded Certificate Completion Requirement

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Core Courses

**Complete ALL of the following Course Sets:**

- Sustainability Studies 201, 401, 403, 501

Sustainability electives

An additional 6 units from the Field of Sustainability Studies, of which a minimum of 3 units must be at the 300 level or above. The Academic Co-ordinator of Sustainability Studies must approve elective courses.

**Earn at least 6 credits from the following:**

- Field of Sustainability Studies

**Additional Comments:**

## Creative and Performing Arts; School of Department

The School of Creative and Performing Arts is part of the Faculty of Arts.

For more information concerning program regulations and requirements, refer to the [Faculty of Arts](#). For contact information or current events, refer to the [School of Creative and Performing Arts](#).

The School of Creative and Performing Arts (SCPA) provides both rigorous and distinct disciplinary programs and uncommon opportunities for interdisciplinary exchange and collaboration. Hosting programs in Dance, Drama and Music, the SCPA provides students a range of options for specialization and innovation, both within and across its participating divisions.

Dance provides a four-year BA (Dance) degree and a four-year BFA (Dance) degree that explores dance from multiple perspectives, as well as a five-year combined BKIN/BA degree that highlights the relationships between the sciences, arts and humanities and a five-year Concurrent Program with the Werklund School of Education that combines a Bachelor of Education with a BA Dance with a concentration in Dance Pedagogy. Students delve into choreography, performance, technique, improvisation, dance for the camera, dance science, global dance, history, and theory in order to understand the place of dance in the twenty-first century. From ballet to contact improvisation, hip hop to contemporary, dance at the University of Calgary helps students gain in-depth experience as well as a broad understanding of a range of cultural forms. With emphasis on both practice and analysis, our program is designed to prepare graduates for careers in professional performance, choreography, scholarship, and education, as well as further dance study in graduate programs.

Drama offers a four-year Bachelor of Fine Arts Degree comprised of a broad curriculum including: acting, directing, scenography, playwriting, performance creation, drama education, theatre history and dramatic literature and criticism. The program allows the student to tailor their degree to their interests and their desired career path. Drama also offers a five-year concurrent BFA/BED degree with the Werklund School of Education. Many of our courses are available to non-Drama students and can contribute to an elective requirement.

Music offers a four-year Bachelor of Music (BMus) Degree that is designed for students wishing to enter a professional career in music, as performers, teachers, composers, sound designers, theorists, historians or musicologists. The BMus degree provides the opportunity for students to Major in Performance, Composition or Integrated Studies. In addition there is a major in Music Education that is available in the context of a five-year concurrent BMus/Bachelor of Education degree for students wishing to pursue the Secondary Route. Students wishing to pursue the Elementary Route should complete a BA Music/Bachelor of Education degree. All BMus programs have a common first year.

Music also offers four-year programs leading to Bachelor of Arts (Music) and Honours Bachelor of Arts (Music) degrees for the student who wishes to pursue a general liberal arts education with an emphasis on Music. It is an ideal degree for students who are interested in music but may wish to pursue careers in law, medicine, arts administration, media studies, elementary education, digital arts, and so on. In addition to music courses, BA (Music) students have the flexibility to take a large number of courses outside of the field of Music, allowing them to create degree plans that cater to their individual interests and needs.

In addition to the three discipline-specific divisions, the School of Creative and Performing Arts provides unique opportunities for interdisciplinary instruction and collaboration. Specifically, there is one interdisciplinary course required of all students enrolled in a major program in SCPA. This course provides both theoretical and practical instruction in interdisciplinary exchange and creative process. Beyond this required course SCPA students enjoy a wide range of special topics electives and extra-curricular opportunities that explore a variety of interdisciplinary practices and subject material.

## Programs

### Overview

#### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

## Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts **requirements**, Music requires:

- a) A completed Bachelor of Music degree (or equivalent), including study in composition.
- b) A portfolio of at least three recent compositions, together with recordings (where available). Applicants wishing to specialize in electroacoustic composition must submit recordings.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- **MUSI613 Sem in Theory & Composition**, **MUSI631 Res Tech & Biblio of Music** and **MUSI641 Composition**
- one of **MUSI641 Composition** or **MUSI653 Projects in Computer Music**
- 3-unit graduate Music course, and
- 6 units of approved graduate-level courses in any area.

No more than 6 units may be from independent study courses **MUSI661 Independent Study** and **MUED655 Independent Study**.

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be either a substantial creative project and an accompanying descriptive essay related to the project, or a portfolio of creative work, the majority of which must have been created in the second year of residency, and an accompanying descriptive essay related to the portfolio. Normally, the project or portfolio will have been presented in a public recital prior to the thesis defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the Flexible Grade Option (CG Grade) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is five years for the Master of Music programs.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://grad.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- A recognized master's degree or equivalent.
- One-page letter detailing their specific reasons for pursuing graduate study.
- Two reference letters.
- A portfolio of works, together with recordings, if available, and an extended research paper.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- 6 units of [MUSI741 Composition](#).
- 6 units of [MUSI613 Sem in Theory & Composition](#), and
- 6 units of additional approved graduate courses.

## Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

The thesis is interpreted to be a substantial creative project and an accompanying analytical/research paper approved by the supervisory committee.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is six years for the doctoral program.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and is not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts requirements, Music requires that all applicants submit:

- a) A completed Bachelor of Music degree, including study in conducting.
- b) Demonstrated ability in an audition, which can be met in two ways:
  - A video of approximately fifteen minutes.
  - A rehearsal of a University ensemble (during Fall and early Winter).
- c) Demonstrated competence on a major instrument or voice.
- d) One-page letter detailing their specific reasons for pursuing graduate study.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- [MUPF632 Advanced Choral Conducting](#) or [MUPF634 Advanced Instrumental Conducting](#)
- 3-unit graduate course in Music Theory, Composition, Sonic Arts or Music History and Literature
- 6 units of graduate Music courses, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

### Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be two public performances, on or off campus, with University or community ensembles. At least one Canadian work should be included in one of the recitals. The examining committee will evaluate the candidate's performance in both of the recitals. Recital proposals are to be submitted to the Graduate Program Administrator for approval by the Graduate Committee at least two months before each performance.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### **Flexible Grade Option (CG Grade)**

The Music program in the School of Creative and Performing Arts will not permit the Flexible Grade Option (CG Grade) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### **Time Limit**

Maximum completion time is five years for the Master of Music programs.

#### **Supervisory Assignments and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

#### **Required Examinations**

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

#### **Thesis Examinations**

In addition to Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

#### **Financial Assistance**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

#### **Contact Information**

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

#### **For Program Advice**

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

### Introduction

The School of Creative and Performing Arts (SCPA) provides both rigorous and distinct disciplinary programs and uncommon opportunities for interdisciplinary exchange and collaboration. Hosting programs in Dance, Drama and Music, the SCPA provides students a range of options for specialization and innovation, both within and across its participating divisions.

Dance provides a four-year BA (Dance) degree and a four-year BFA (Dance) degree that explores dance from multiple perspectives, as well as a five-year combined BKIN/BA degree that highlights the relationships between the sciences, arts and humanities and a five-year Concurrent Program with the Werklund School of Education that combines a Bachelor of Education with a BA Dance with a concentration in Dance Pedagogy. Students delve into choreography, performance, technique, improvisation, dance for the camera, dance science, global dance, history, and theory in order to understand the place of dance in the twenty-first century. From ballet to contact improvisation, hip hop to contemporary, dance at the University of Calgary helps students gain in-depth experience as well as a broad understanding of a range of cultural forms. With emphasis on both practice and analysis, our program is designed to prepare graduates for careers in professional performance, choreography, scholarship, and education, as well as further dance study in graduate programs.

In addition to the three discipline-specific divisions, the School of Creative and Performing Arts provides unique opportunities for interdisciplinary instruction and collaboration. Specifically, there is one interdisciplinary course required of all students enrolled in a major program in SCPA. This course provides both theoretical and practical instruction in interdisciplinary exchange and creative process. Beyond this required course SCPA students enjoy a wide range of special topics electives and extra-curricular opportunities that explore a variety of interdisciplinary practices and subject material.

## Admissions

### Program Admissions Information

## Admission to the BFA in Dance

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

Applicants to the BFA Dance will be assessed on the basis of a dance audition and an Entrance Audition Form.

### ***Dance Audition***

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Dance Committee. During the audition, applicants will be required to participate in dance classes, written assignments and improvisation.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February/March.

More information on the Dance Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-dance/how-apply/bfaba-dance-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-dance/how-apply/bfaba-dance-entrance-audition).

## Program Details

### Simple Requisites

#### Faculty Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts Degree Requirements
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: **3. Faculty of Arts Regulations**.

**Additional Comments:**

#### Courses Constituting the Field of Dance

##### Type

Completion Requirement

The BFA in Dance requires the successful completion of a minimum of 87 units to a maximum of 96 units in Courses Constituting the Field of Dance while fulfilling the Program Requirements:

**Earn at least 87 credits from the following:**

- Courses Constituting the Field of Dance

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Major-Field - Specified Courses

## Earn at least 87 credits from the following:

- 69 units from the following Core Courses: Dance 207, 209, 231, 233, 235, 295, 305, 307, 333, 347, 359, 391, 395, 405, 407, 427, 431, 433, 481, 491, 505, 507, 531
- 3 units from the following Core Courses: Dance 447 or 449
- 12 units from the following Studio Options: Dance 215, 311, 313, 321, 323, 411, 413, 421, 423
- 3 units from the following Dance Options: Dance 309, 343, 363, 375, 475, 493, 503, 581

**Note:** Dance 427, 447/449 and 481 are not offered every year. These courses are required without exception. Students must arrange their schedules to accommodate the alternating timetable.

## Other Requirements

### Earn at least 6 credits from the following:

- 3 units School of Creative and Performing Arts 499
- 3 units from courses labelled Art (ART), Art History (ARHI), Drama (DRAM), Film (FILM), Music (MUSI), Music Education (MUED), Music Performance (MUPF), or School of Creative and Performing Arts (SCPA)

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

## Additional Comments:

## Overview

### General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the **Student Centre**. The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Dance

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 to a maximum of 36 from Courses Constituting the Field of Dance while fulfilling Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Dance

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

#### Minor Requirements

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Dance
- With at least 18 units at the 300 level or above.

**Additional Comments:**

## Overview

### General Program Information

#### Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

#### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

### Introduction

## UCalgary

The School of Creative and Performing Arts (SCPA) provides both rigorous and distinct disciplinary programs and uncommon opportunities for interdisciplinary exchange and collaboration. Hosting programs in Dance, Drama and Music, the SCPA provides students a range of options for specialization and innovation, both within and across its participating divisions.

Dance provides a four-year BA (Dance) degree and a four-year BFA (Dance) degree that explores dance from multiple perspectives, as well as a five-year combined BKIN/BA degree that highlights the relationships between the sciences, arts and humanities and a five-year Concurrent Program with the Werklund School of Education that combines a Bachelor of Education with a BA Dance with a concentration in Dance Pedagogy. Students delve into choreography, performance, technique, improvisation, dance for the camera, dance science, global dance, history, and theory in order to understand the place of dance in the twenty-first century. From ballet to contact improvisation, hip hop to contemporary, dance at the University of Calgary helps students gain in-depth experience as well as a broad understanding of a range of cultural forms. With emphasis on both practice and analysis, our program is designed to prepare graduates for careers in professional performance, choreography, scholarship, and education, as well as further dance study in graduate programs.

In addition to the three discipline-specific divisions, the School of Creative and Performing Arts provides unique opportunities for interdisciplinary instruction and collaboration. Specifically, there is one interdisciplinary course required of all students enrolled in a major program in SCPA. This course provides both theoretical and practical instruction in interdisciplinary exchange and creative process. Beyond this required course SCPA students enjoy a wide range of special topics electives and extra-curricular opportunities that explore a variety of interdisciplinary practices and subject material.

## Admissions

### Program Admissions Information

#### Admission to the BA in Dance

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

Applicants to the BA Dance will be assessed on the basis of a dance audition and an Entrance Audition Form. For information about the Entrance Audition Form and application deadlines, refer to the BA/BFA Dance Entrance Auditions website: [arts.ucalgary.ca/schools/creative-performing-arts/dance/admission-auditions-and-faqs](https://arts.ucalgary.ca/schools/creative-performing-arts/dance/admission-auditions-and-faqs).

#### Dance Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Dance Committee. During the audition, applicants will be required to participate in dance classes, written assignments and improvisation.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February/March.

More information on the Dance Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-dance/how-apply/bfaba-dance-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-dance/how-apply/bfaba-dance-entrance-audition).

## Program Details

### Simple Requisites

#### Faculty Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

## Additional Comments:

## Courses Constituting the Field of Dance

### Type

Completion Requirement

The BA in Dance requires the successful completion of a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Dance while fulfilling the Program Requirements:

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Dance

## Additional Comments:

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 48 credits from the following:**

- 33 units from the following Core Courses : Dance 207, 209, 231, 233, 235, 305, 307, 333, 347, 359, 481
- 3 units: Dance 309, 343, 503, 581
- 3 units from the following Studio Options: Dance 215, 311 or 313, 427, 431
- 9 units from the following Theory Options: Dance 363, 391, 447, 449, 491

**Note:** Dance 481 is not offered every year. This course is required without exception. Students must arrange their schedules to accommodate the alternating timetable.

Other Requirements

**Earn at least 6 credits from the following:**

- 3 units School of Creative and Performing Arts 499
- 3 units from courses labelled Art (ART), Art History (ARHI), Drama (DRAM), Film (FILM), Music (MUSI), Music Education (MUED), Music Performance (MUPF), or School of Creative and Performing Arts (SCPA)

## Additional Comments:

## Concentrations

### Type

Completion Requirement

Dance Pedagogy

Students in the BA Dance program may elect to complete a concentration in Dance Pedagogy.

**Earn at least 18 credits from the following:**

- 18 units from the Dance Pedagogy Concentration: Dance 235, 359, 427, 447, 449, 493

## Dance Production

Students in the BA Dance program may elect to complete a concentration in Dance Production.

**Earn at least 18 credits from the following:**

- 18 units from the Dance Production concentration: Drama 223, 225; Dance 391, 437, 491; School of Creative and Performing Arts 301

**Additional Comments:**

## Combined Degrees with Kinesiology and Education

### Type

### Completion Requirement

#### Combined/Concurrent programs

There are specific Program and/or Faculty requirements when the BA in Dance is combined with either the BKin Kinesiology or the Bachelor of Education. For those requirements refer to:

**Complete ANY of the following Requirement Sets:**

- Concurrent BA Dance (Dance Pedagogy concentration)/BEd
- Combined BKin (Kinesiology)/BA (Dance) - Dance Requirements

**Additional Comments:**

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Faculty of Arts - Combined Degrees
- Embedded Certificates
- Arts and Science Honours Academy

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Drama

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units of Courses Constituting the Field of Drama while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Drama

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Minor Program Requirements

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Drama
- A minimum 18 units at the 300 level or above.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Creative and Performing Arts (SCPA) provides both rigorous and distinct disciplinary programs and uncommon opportunities for interdisciplinary exchange and collaboration. Hosting programs in Dance, Drama and Music, the SCPA provides students a range of options for specialization and innovation, both within and across its participating divisions.

Drama offers a four-year Bachelor of Fine Arts Degree comprised of a broad curriculum including: acting, directing, scenography, playwriting, performance creation, drama education, theatre history and dramatic literature and criticism. The program allows the student to tailor their degree to their interests and their desired career path. Drama also offers a five-year concurrent BFA/BED degree with the Werklund School of Education. Many of our courses are available to non-Drama students and can contribute to an elective requirement.

In addition to the three discipline-specific divisions, the School of Creative and Performing Arts provides unique opportunities for interdisciplinary instruction and collaboration. Specifically, there is one interdisciplinary course required of all students enrolled in a major program in SCPA. This course provides both theoretical and practical instruction in interdisciplinary exchange and creative process. Beyond this required course SCPA students enjoy a wide range of special topics electives and extra-curricular opportunities that explore a variety of interdisciplinary practices and subject material.

## Admissions

### Program Admissions Information

### Admission to the BFA in Drama

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

An audition is not required for admission to the program, however certain courses will require an audition and consent of the Division Lead, Drama before registration.

## Program Details

### Simple Requisites

#### Faculty Requirement

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

## Courses Constituting the Field of Drama

### Type

Completion Requirement

The BFA in Drama requires the successful completion of a minimum of 69 units to a maximum of 75 units in Courses Constituting the Field of Drama while fulfilling the Program Requirements.

**Earn at least 69 credits from the following:**

- Courses Constituting the Field of Drama

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 36 credits from the following:**

- Core Courses: 30 units Drama 209, 210, 223, 225, 242, 243, 345, 346, 347, 391
- 3 units Drama 481
- 3 units Drama 483

Major-Field - Required Options

33 units of Courses Constituting the Field of Drama at the 300 level or above.

**Earn at least 33 credits from the following:**

- Courses Constituting the Field of Drama

Other Requirements

**Earn at least 12 credits from the following:**

- 3 units School of Creative and Performing Arts 499
- 3 units of a course labelled English (ENGL)
- 6 units selected from courses labelled Art (ART), Art History (ARHI), Dance (DNCE), Film (FILM), Music (MUS), School of Creative and Performing Arts (SCPA) and/or courses at the 300 level or above from courses labelled Drama (DRAM)

**Additional Comments:**

## Concurrent BFA (Drama Education)/BEd

### Type

Completion Requirement

Concurrent BFA (Drama Education)/BEd

## Introduction

This five-year program leads to a Bachelor of Fine Arts in Drama Education from the Faculty of Arts and a Bachelor of Education from the Werklund School of Education. A minimum of 150 units must be successfully completed.=

The BFA (Drama Education) program is a specialized program, which exists only in combination with the BEd. It is designed for students intending either to teach drama in schools or to work as drama specialists with young people or community groups following certification. It provides opportunities for course work in performance creation and other aspects of the theatre, which relate directly to the particular needs of theatre with and for youth and communities.

## Admission

Students must meet the admissions requirements for the Faculty of Arts, School of Creative and Performing Arts, Drama major as well as the Werklund School of Education as specified in the (see [A.5 Undergraduate Degree Admission Requirements](#) section of this Calendar.

## Faculty of Arts Graduation Requirements for the BFA Drama/BEd Concurrent degree

Students must adhere to the applicable "Faculty of Arts Requirements - Major Degree Requirements".

## Program Requirements

For students completing the Concurrent BFA (Drama Education)/BEd, these requirements will replace the Program Requirements above.

Complete ANY of the following Requirement Sets:

- Concurrent BFA (Drama Education)/BEd Program Requirements

Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Professional Theatre Internship
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

Additional Comments:

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

###### Year 1:

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including [DRAM605 Methods In Theatre Research](#) and specialization requirements. All candidates must complete a thesis.

##### Complete ALL of the following Courses:

- DRAM611 - Selected Problems in Directing I  
**AND** DRAM613 - Selected Problems in Directing II

###### Year 1:

##### Earn at least 3 credits from the following:

- DRAM641 - Artistic Research  
**OR** DRAM647 - Studies in Modern Drama I  
**OR** DRAM649 - Studies in Modern Drama II

###### Year 1 or 2:

##### Complete ALL of the following Courses:

- DRAM643 - Dramaturgy

#### Additional Comments:

### Additional Requirements

For **Directing** candidates, the thesis will consist of the direction of a full-length play and a supporting paper that reflects critically on the production and on the process of its creation.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

### Time Limit

The Master of Fine Arts degree must be completed within four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

### Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

##### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:  
All candidates must take a minimum of 18 units of graduate courses, including [DRAM605 Methods In Theatre Research](#) and specialization requirements. All candidates must complete a thesis.

##### Earn at least 3 credits from the following:

- [DRAM623 - Seminar in Scene Design](#)  
**AND** [DRAM625 - Seminar in Costume Design](#)  
**AND** [DRAM627 - Seminar in Lighting Design](#)

[DRAM643 Dramaturgy](#) is recommended.

#### Additional Comments:

Students must complete, to the satisfaction of an examining committee, a portfolio and an oral review relating to the student's design work at the completion of the first 12 units. Details concerning the portfolio are available from the Drama office.

For **Design/Technical** candidates, the thesis will consist of the design of a full-length production in two of the following areas: scene design, costume design, light design, sound design, video design. Pictorial material and a supporting paper that reflects critically upon the production and the process of its creation are also required.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

### Time Limit

The Master of Fine Arts degree must be completed within four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

### Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

### Thesis Examination

In addition to Faculty of Graduate Studies regulations for **Thesis Examinations**, the Department requires:

##### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- c) Two letters of reference.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including [DRAM605 Methods In Theatre Research](#) and specialization requirements. All candidates must complete a thesis.

**Complete ALL of the following Courses:**

- DRAM605 - Methods In Theatre Research  
**AND** SCPA609 - Interdisciplinary Processes

Plus 6 units in Drama and 6 units in other disciplines (typically Dance or Music).

**Additional Comments:**

For **Interdisciplinary Creation and Performance** candidates, the thesis will comprise a creative process, its documentation, and written reflection upon the process. It will be determined by the nature of the research in consultation with the supervisor and approved by the Graduate Committee.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

**Flexible Grade Option (CG Grade)**

The Drama program in the School of Creative and Performing Arts will not permit the Flexible Grade Option (CG Grade) for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

**Credit for Undergraduate Courses**

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

**Time Limit**

The Master of Fine Arts degree must be completed within four years.

**Supervisory Assignments, Research Proposal and Required Examinations**

**Type**

Completion Requirement

**Additional Comments:**

**Supervisory Assignments**

The graduate committee assigns a supervisor after discussion with the student.

**Research Proposal Requirements**

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

**Thesis Examination**

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

*Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.
- Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including **Drama 605** and specialization requirements. All candidates must complete a thesis.

**Complete ALL of the following Courses:**

- DRAM671 - Sel Problems Playwriting I  
**AND** DRAM673 - Selected Problems in Playwriting II

Completion of **DRAM675 Pre-thesis in Playwriting** (a pre-thesis play) is recommended if this course is offered.

Year 1 or 2:

**Earn at least 3 credits from the following:**

- DRAM643 - Dramaturgy  
**OR** DRAM647 - Studies in Modern Drama I  
**OR** DRAM649 - Studies in Modern Drama II

**Additional Comments:**

For **Playwriting** candidates, the thesis will consist of a full-length play and a supporting paper that reflects critically on the play and the process of its creation.

#### Additional Program Information

Type

Completion Requirement

**Additional Comments:**

#### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

#### Time Limit

The Master of Fine Arts degree must be completed within four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

Type

Completion Requirement

**Additional Comments:**

### **Supervisory Assignments**

The graduate committee assigns a supervisor after discussion with the student.

### **Research Proposal Requirements**

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

### **Thesis Examination**

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

*Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

### **Financial Assistance**

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## **Overview**

### **General Program Information**

Students will generally be accepted and registered on a full-time basis. Part-time registration will be considered on an individual basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/drama/graduate)

## **Admissions**

### **Program Admissions Information**

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/drama-master-fine-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Drama requires:

- a) A baccalaureate degree that has clearly included a major emphasis in the study of drama with study at the undergraduate level in the proposed area of specialization. Deficiencies of background may be corrected during a year of study as a qualifying student.
- b) A written application including a biographical outline of the applicant's studies and experience in theatre and a statement of intent outlining proposed projects in Drama. When the applicant intends to study in the Design/Technical specialization, a portfolio of drawings and design work is required. Applicants to the Playwriting specialization must submit a portfolio of original

creative writing. Applicants to the Theatre Studies specialization must submit samples of their written work. Directing applicants must submit a selected portfolio that might include reviews, photographs and/or video clips of productions directed. Applicants to the Interdisciplinary Creation and Research specialization must submit a portfolio of original work and a writing sample.

c) Two letters of reference.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculties of Graduate Studies and Arts requirements, Drama also specifies the following requirements:

All candidates must take a minimum of 18 units of graduate courses, including **Drama 605** and specialization requirements. All candidates must complete a thesis.

**Complete ALL of the following Courses:**

- DRAM641 - Artistic Research  
**AND** DRAM647 - Studies in Modern Drama I  
**AND** DRAM649 - Studies in Modern Drama II

Year 1 or 2:

**Complete ALL of the following Courses:**

- DRAM643 - Dramaturgy

#### Additional Comments:

For **Theatre Studies** candidates, the thesis will either be a substantial scholarly research paper or a documentation of artistic/empirical research processes and results in a significant scholarly component.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Drama program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Drama Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Drama may give credit for undergraduate courses at the 500 level at the discretion of the supervisor and graduate committee. No more than 6 units of coursework may be done at the undergraduate level.

## Time Limit

The Master of Fine Arts degree must be completed within four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The graduate committee assigns a supervisor after discussion with the student.

## Research Proposal Requirements

Research proposals are formulated by the student in consultation with the supervisor and approved by the graduate committee. The committee will follow the University's policies on ethical conduct in research in its review of proposals.

## Thesis Examination

In addition to Faculty of Graduate Studies regulations for [Thesis Examinations](#), the Department requires:

### *Composition of the Committee*

The Internal Examiner must be external to the home program.

Final thesis oral examinations are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of the Graduate Calendar. Students applying for scholarships must submit their applications to Drama by February 1.

## Overview

### General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Music offers a four-year Bachelor of Music (BMus) Degree that is designed for students wishing to enter a professional career in

music, as performers, teachers, composers, sound designers, theorists, historians or musicologists. The BMus degree provides the opportunity for students to Major in Performance, Composition or Integrated Studies. In addition there is a major in Music Education that is available in the context of a five-year concurrent BMus/Bachelor of Education degree for students wishing to pursue the Secondary Route. Students wishing to pursue the Elementary Route should complete a BA Music/Bachelor of Education degree. All BMus programs have a common first year.

The Major is designed for students looking to build strong musical skills in a comprehensive music degree. The flexibility of years three and four allows students to gain a broad musical knowledge (for example, equal parts Music History, Music Performance and Music Theory and Composition) or to fuse two or more areas of musical study in a way that they are unable to in the other majors (for example performance and composition, music and technology, performance and early music studies). Admission to this major will depend on a statement of interest submitted to the Division Lead of Music at the end of the first year of studies.

## Admissions

### Program Admissions Information

## Admission to BMus Degrees

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

Admission requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Admission to BMus Programs is also contingent on an audition and interview where applicants are assessed not only on actual performance, but also on talent, potential, and musicality.

## Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Music Committee. During the audition, applicants will be required to perform repertoire outlined by the audition repertoire suggestions document provided online. Sight-reading and technique may be included as part of the audition.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February /March.

More information about the BMUS Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition).

More information, deadlines and audition forms are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs).

BMus applicants who do not wish to audition in person may submit a video audition. If a recording is submitted, the student may be required to perform a live audition upon arrival. The recording should consist of approximately 10 minutes of music and conform to the requirements for auditions given above. The recording should have been made not more than two months prior to submission, should be of good quality and should be solo or solo with accompaniment. More information and deadlines for the receipt of video or are on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

## Audition Requirements

Applicants should be prepared to perform two pieces (except for piano and voice, who should be prepared to perform three pieces), each from a different style period; singers and instrumentalists must provide their own accompanist. Applicants should be prepared to perform for approximately 10 minutes; in addition, they will be asked to sight-read a short piece of music appropriate to their instrument or voice.

Applicants audition on the instrument of their choice or in voice. Those who would like to audition on two instruments may do so. The jury will determine which instrument (or voice) will become the major when the applicant is admitted to a Music program.

Previously accepted students who have not been enrolled in a performance practicum course for a year or more may be required to re-audition in order to determine if the previous level of attainment has been maintained.

## Guidelines

As an indication of the level for admission to Music, the following guidelines should be noted:

- Pianists and vocalists should be prepared to perform repertoire at the Grade X level.
- All others should be prepared to perform repertoire at the Grade VIII level. Students who have not reached the Grade VIII level, but who have a serious interest in a career in music, are encouraged to apply and to audition at the level of performance they have reached. Suggested audition repertoire guidelines are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

## Bachelor of Music (BMus) - Major of Integrated Studies

Bachelor of Music students take a common first-year program of study and then select one of the following Major Fields of specialization:

- Composition [Music](#)
- Integrated Studies [BMus in In](#)
- Performance [Music](#)

Admission to each Major is conditional on:

1. The completion of Music 213, 214, 221, 223, 225, and 230 or 232 with an average of "B-" (2.70) or better in those courses.
2. Grades of "B" (3.00) or better in courses in their area: Composition or Performance.
3. Approval of the Division Lead.

## Music Students: Keyboard Proficiency Tests

Music has a required minimum level of keyboard proficiency, which all Bachelor of Music students must achieve in order to graduate. Applicants who have never played a keyboard instrument, or whose proficiency does not meet the required level, will be advised to take remedial work in keyboard, either through the Music Division or privately.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Music

##### Type

Completion Requirement

The BMus in Integrated Studies requires the successful completion of a minimum of 66 units to a maximum of 96 units in Courses Constituting the Field of Music while fulfilling the Program Requirements:

**Earn at least 66 credits from the following:**

- Courses Constituting the Field of Music

Additional Comments:

## Program Requirements

### Type

### Completion Requirement

Common Core Program for BMus Majors

Earn at least 39 credits from the following:

- Common Core Program for BMus Majors

Integrated Studies Requirements

Earn at least 15 credits from the following:

- 6 units Music 421, 423
- 9 units from Music Performance\* 301, 303, 305, 311, 313, 315

*\*Ensemble limit: No more than 24 units of courses labelled Music Performance can be counted toward degree requirements.*

Music Options

- 6 units of Music History and Literature, Composition, Sonic Arts, or Theory at the 300 level or above
- 6 units from one of the three options:
  - 3 units of Music History and Literature at the 300 level or above and 3 units of Composition, Sonic Arts, or Theory at the 300 level or above, or
  - 6 units Music 462 (**MUSI462 Junior Performance Project**), or
  - 6 units Music 560 (**MUSI560 Senior Project**)

Earn at least 12 credits from the following:

- Courses Constituting the Field of Music

Other Requirements

Earn at least 3 credits from the following:

- 3 units School of Creative and Performing Arts 499

Additional Comments:

## Concentration in Sonic Arts for Music Majors

### Type

### Completion Requirement

Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

Complete ANY of the following Requirement Sets:

- Concentration in Sonic Arts

Additional Comments:

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

Additional Comments:

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The BMus (Music Education) exists **only** in combination with the Teacher program. It is designed for students intending to teach music (both instrumental and choral) in the schools at the secondary level. In addition to the core areas of performance, theory, history and musicianship, the program provides course work in conducting, vocal and instrumental techniques and appropriate pedagogy for different age groups.

This five-year program leads to a Bachelor of Education from the Werklund School of Education and a Bachelor of Music in Music Education from the Faculty of Arts. A minimum of 150 units must be successfully completed.

## Admissions

### Program Admissions Information

Students must meet the admissions requirements for both the Bachelor of Music program (below) and the Faculty of Arts as well as the Werklund School of Education (see [A.5 Undergraduate Degree Admission Requirements](#)).

## Admission to BMus Degrees

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Admission requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Admission to BMus Programs is also contingent on an audition and interview where applicants are assessed not only on actual performance, but also on talent, potential, and musicality.

## Audition

## UCalgary

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Music Committee. During the audition, applicants will be required to perform repertoire outlined by the audition repertoire suggestions document provided online. Sight-reading and technique may be included as part of the audition.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February /March.

More information about the BMUS Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition).

More information, deadlines and audition forms are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs).

BMus applicants who do not wish to audition in person may submit a video audition. If a recording is submitted, the student may be required to perform a live audition upon arrival. The recording should consist of approximately 10 minutes of music and conform to the requirements for auditions given above. The recording should have been made not more than two months prior to submission, should be of good quality and should be solo or solo with accompaniment. More information and deadlines for the receipt of video or are on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### **Audition Requirements**

Applicants should be prepared to perform two pieces (except for piano and voice, who should be prepared to perform three pieces), each from a different style period; singers and instrumentalists must provide their own accompanist. Applicants should be prepared to perform for approximately 10 minutes; in addition, they will be asked to sight-read a short piece of music appropriate to their instrument or voice.

Applicants audition on the instrument of their choice or in voice. Those who would like to audition on two instruments may do so. The jury will determine which instrument (or voice) will become the major when the applicant is admitted to a Music program.

Previously accepted students who have not been enrolled in a performance practicum course for a year or more may be required to re-audition in order to determine if the previous level of attainment has been maintained.

### **Guidelines**

As an indication of the level for admission to Music, the following guidelines should be noted:

- Pianists and vocalists should be prepared to perform repertoire at the Grade X level.
- All others should be prepared to perform repertoire at the Grade VIII level. Students who have not reached the Grade VIII level, but who have a serious interest in a career in music, are encouraged to apply and to audition at the level of performance they have reached. Suggested audition repertoire guidelines are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### **Bachelor of Music (BMus) - Major of Music Education**

Bachelor of Music students take a common first-year program of study and then select their Major Fields of specialization.

Admission to each Major is conditional on:

1. The completion of Music 213, 214, 221, 223, 225, and 230 or 232 with an average of "B-" (2.70) or better in those courses.
2. Grades of "B" (3.00) or better in courses in their area: Composition or Performance.
3. Approval of the Division Lead.

### **Music Students: Keyboard Proficiency Tests**

Music has a required minimum level of keyboard proficiency, which all Bachelor of Music students must achieve in order to graduate. Applicants who have never played a keyboard instrument, or whose proficiency does not meet the required level, will be advised to take remedial work in keyboard, either through the Music Division or privately.

### **Program Details**

## Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty Graduation Requirements

For Faculty of Arts Major Degree and Combined Degree requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

For regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Additional Comments:**

### Courses Constituting the Field of Music

#### Type

Completion Requirement

Students must successfully complete a minimum of 66 units to a maximum of 81 units in the Field of Music while fulfilling the Program Requirements

**Earn at least 66 credits from the following:**

- Courses Constituting the Field of Music

**Additional Comments:**

### Program Requirements

#### Type

Completion Requirement

#### Common Core Program for BMus Majors

**Earn at least 39 credits from the following:**

- Common Core Program for BMus Majors

#### Music Education Requirements

**Earn at least 27 credits from the following:**

- 18 units from Music Education 331, 341, 343, 401, 403, 413, 415, 417, 419, 420
- 3 units from Music Performance 301, 303, 305, 321
- 6 units from Music Performance 301, 303, 305, 311, 313, 315, 321, 325, 327, 329

#### Other Requirements

**Earn at least 3 credits from the following:**

- 3 units School of Creative and Performing Arts 499

**Additional Comments:**

### Degree Options

#### Type

## Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- a) A completed Bachelor of Music degree (or equivalent).
- b) Normally, two years of successful teaching experience or equivalent professional involvement in music education.
- c) An essay on a topic in Music Education prepared during or subsequent to the applicant's undergraduate work.
- d) One-page letter detailing their specific reasons for pursuing graduate study.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- [MUED671 Selected Topic in School Music](#), and
- 12 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying

work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

## Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

## Additional Program Information

### Type

Completion Requirement

**Additional Comments:**

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is five years for the Master of Music programs.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for **Thesis Examinations**, the program requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

#### **Financial Assistance**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) One or two extended research essays.

## Program Details

### Simple Requisites

#### **Program/Course Requirements**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- An interdisciplinary course (3 units) designed by the student and supervisor, and
- 15 units of additional approved graduate-level courses.

## Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Time Limit

Maximum completion time is six years for the doctoral program.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Music offers a four-year Bachelor of Music (BMus) Degree that is designed for students wishing to enter a professional career in music, as performers, teachers, composers, sound designers, theorists, historians or musicologists. The BMus degree provides the opportunity for students to Major in Performance, Composition or Integrated Studies. In addition there is a major in Music Education that is available in the context of a five-year concurrent BMus/Bachelor of Education degree for students wishing to pursue the Secondary Route. Students wishing to pursue the Elementary Route should complete a BA Music/Bachelor of Education degree. All BMus programs have a common first year.

## Admissions

### Program Admissions Information

## Admission to BMus Degrees

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Admission requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Admission to BMus Programs is also contingent on an audition and interview where applicants are assessed not only on actual performance, but also on talent, potential, and musicality.

## Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Music Committee. During the audition, applicants will be required to perform repertoire outlined by the audition repertoire suggestions document provided online. Sight-reading and technique may be included as part of the audition.

## UCalgary

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February /March.

More information about the BMUS Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition).

More information, deadlines and audition forms are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs).

BMus applicants who do not wish to audition in person may submit a video audition. If a recording is submitted, the student may be required to perform a live audition upon arrival. The recording should consist of approximately 10 minutes of music and conform to the requirements for auditions given above. The recording should have been made not more than two months prior to submission, should be of good quality and should be solo or solo with accompaniment. More information and deadlines for the receipt of video or are on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### Audition Requirements

Applicants should be prepared to perform two pieces (except for piano and voice, who should be prepared to perform three pieces), each from a different style period; singers and instrumentalists must provide their own accompanist. Applicants should be prepared to perform for approximately 10 minutes; in addition, they will be asked to sight-read a short piece of music appropriate to their instrument or voice.

Applicants audition on the instrument of their choice or in voice. Those who would like to audition on two instruments may do so. The jury will determine which instrument (or voice) will become the major when the applicant is admitted to a Music program.

Previously accepted students who have not been enrolled in a performance practicum course for a year or more may be required to re-audition in order to determine if the previous level of attainment has been maintained.

### Guidelines

As an indication of the level for admission to Music, the following guidelines should be noted:

- Pianists and vocalists should be prepared to perform repertoire at the Grade X level.
- All others should be prepared to perform repertoire at the Grade VIII level. Students who have not reached the Grade VIII level, but who have a serious interest in a career in music, are encouraged to apply and to audition at the level of performance they have reached. Suggested audition repertoire guidelines are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### Bachelor of Music (BMus) - Major of Composition

Bachelor of Music students take a common first-year program of study and then select one of the following Major Fields of specialization:

- Composition [Music](#)
- Integrated Studies [BMus in In](#)
- Performance [Music](#)

Admission to each Major is conditional on:

1. The completion of Music 213, 214, 221, 223, 225, and 230 or 232 with an average of "B-" (2.70) or better in those courses.
2. Grades of "B" (3.00) or better in courses in their area of Composition.
3. Approval of the Division Lead.

### Music Students: Keyboard Proficiency Tests

Music has a required minimum level of keyboard proficiency, which all Bachelor of Music students must achieve in order to graduate. Applicants who have never played a keyboard instrument, or whose proficiency does not meet the required level, will be advised to take remedial work in keyboard, either through the Music Division or privately.

### Program Details

## Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

### Courses Constituting the Field of Music

#### Type

Completion Requirement

The BMus in Composition requires the successful completion of a minimum of 81 units to a maximum of 96 units in the Courses Constituting the Field of Music while fulfilling the Program Requirements.

#### Complete ALL of the following Requirement Sets:

- Courses Constituting the Field of Music

#### Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Common Core Program for BMus Majors

#### Earn at least 39 credits from the following:

- Common Core Program for BMus Majors

#### Composition Requirements

#### Earn at least 39 credits from the following:

- 6 units Music 341, 343
- 15 units Music 441, 443, 445, 447, 451
- 6 units Music 560
- 3 units from Music Performance 301, 303, 305, 311, 313, 315, 321, 325, 327 or 329\*
- 9 units from Music 351, 355, 415, 417, 453, 511, 513, 551, 552

*\*Ensemble limit: No more than 24 units of courses labelled Music Performance can be counted toward degree requirements.*

#### Music History and Literature Options

- 3 units of Music History and Literature at the 300 level or above.

#### Earn at least 3 credits from the following:

- Courses Constituting the Field of Music

## Other Requirements

Earn at least 3 credits from the following:

- 3 units School of Creative and Performing Arts 499

**Additional Comments:**

## Concentration in Sonic Arts for Music Majors

Type

Completion Requirement

### Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

**Complete ANY of the following Requirement Sets:**

- Concentration in Sonic Arts

**Additional Comments:**

## Degree Options

Type

Completion Requirement

### Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

**Additional Comments:**

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Admission to the Minor in Music requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Music

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 from Courses Constituting the Field of Music while fulfilling Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Music

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Music, with at least 15 units at the 300 level or above.

The Music Minor also requires:

**Complete ALL of the following Course Sets:**

- At least 3 units from courses labelled Music Performance (MUPF)

**Note:** Enrolment in Music 221([MUSI221 Performance Practicum I](#)) and 223 ([MUSI223 Performance Practicum II](#)) is by audition and subject to available resources. Students wishing to include these courses in their program of study should see [Audition Dates](#) on the school of Creative and Performance website or contact the Music Undergraduate Program Administrator for more information on when and how to apply for an audition.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

### Admission to the BA in Music

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

While not required for admission completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam is required for registration in certain required music courses. Applicants are strongly encouraged to complete this requirement prior to beginning the BA Music program.

## Program Details

Simple Requisites

### Faculty Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

### Courses Constituting the Field of Music

#### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of Music while fulfilling the Program Requirements.

#### Earn at least 48 credits from the following:

- Courses Constituting the Field of Music

Additional Comments:

#### Program Requirements

Type

Completion Requirement

Major-Field - Specified Courses

**Earn at least 27 credits from the following:**

- Foundation Courses: 15 units Music 213, 214, 230 or 232, 330, 332
- Foundation Courses: 3 units at the 300 level in Composition, Sonic Arts or Theory
- Music Performance and Musicianship: 9 units from Music 225, 325, and courses labelled Music Performance.

Major-Field - Required Options

#### **An additional 21 units from Courses Constituting the Field of Music including:**

- *Upper-Level Courses:* 6 units in Music History and Literature, Composition, Sonic Arts or Theory at the 400 or 500 level
- *Upper-Level Courses:* 15 units at the 300 level or above

**Earn at least 21 credits from the following:**

- Courses Constituting the Field of Music

Other Requirements

**Earn at least 3 credits from the following:**

- 3 units School of Creative and Performing Arts 499

Additional Comments:

#### Concentration in Sonic Arts for Music Majors

Type

Completion Requirement

Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

**Complete ANY of the following Requirement Sets:**

- Concentration in Sonic Arts

Additional Comments:

#### Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Honours Degrees

Additional Comments:

## Overview

General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

### Admission to the BA in Music

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

While not required for admission completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam is required for registration in certain required music courses. Applicants are strongly encouraged to complete this requirement prior to beginning the BA Music program.

### Admission to the BA Honours Music

Students wishing to be considered for admission into the BA Honours (Music) Program must have completed at least 30 units in the BA (Music) Program and must meet the criteria established by the Faculty of Arts in section [3.3.2 Honours Degrees](#). Students wishing to apply to an Honours program must apply through their Student Centre for a change of program to Honours by February 1.

## Program Details

Simple Requisites

### Faculty Requirement

#### Type

Completion Requirement

#### Faculty Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

**Additional Comments:**

## Courses Constituting the Field of Music

**Type**

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of Music while fulfilling the Program Requirements

**Earn at least 60 credits from the following:**

- Courses Constituting the Field of Music

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 33 credits from the following:**

- Foundation Courses: 15 units Music 213, 214, 230 or 232, 330, 332
- Foundation Courses: 3 units at the 300 level in Composition, Sonic Arts or Theory
- Music Performance and Musicianship: 9 units from Music 225, 325, and courses labelled Music Performance.
- Honours Project: 6 units Music 560

Major-Field - Required Options

## An additional 27 units from Courses Constituting the Field of Music including:

- *Upper-Level Courses:* 6 units in Music History and Literature, Composition, Sonic Arts or Theory at the 400 or 500 level
- *Upper-Level Courses:* 21 units at the 300 level or above

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of Music

Other Requirements

**Earn at least 3 credits from the following:**

- 3 units School of Creative and Performing Arts 499

**Additional Comments:**

## Concentration in Sonic Arts for Music Majors

**Type**

Completion Requirement

## Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

### Complete ANY of the following Requirement Sets:

- Concentration in Sonic Arts

Additional Comments:

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Arts and Science Honours Academy

Additional Comments:

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires that all applicants submit:

- a) A completed Bachelor of Music degree (or equivalent).
- b) A research essay or paper of approximately 10-15 pages on a topic in music history or theory prepared during or subsequent to the applicant's undergraduate course work.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

Program Description

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

#### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI631 Res Tech & Biblio of Music](#)
- 3-unit graduate course in Music Theory, Composition, Sonic Arts or Music History and Literature
- 12 units of graduate Music courses, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

### Language

Applicants are required to demonstrate a reading knowledge of a language other than English—normally German. In practice, this requirement and any other linguistic competence that may be deemed necessary for the student's proposed research area must be met before the thesis topic will be approved.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is four years for the Master of Arts (Musicology).

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

#### Supervisory Assignments

## Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

In addition to Faculty of Graduate Studies requirements, the program requires:

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts requirements, the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) One or two extended research essays of approximately 25 pages in length.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- An interdisciplinary course (3 units) designed by the student and supervisor, and
- 15 units of additional approved graduate-level courses.

#### Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Time Limit

Maximum completion time is six years for the doctoral program.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

#### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

### Candidacy

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

### Thesis Examination

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

## Contact Information

School of Creative and Performing Arts Office: Craigie Hall D100

Website: [arts.ucalgary.ca/schools/creative-performing-arts/](https://arts.ucalgary.ca/schools/creative-performing-arts/)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The Major is designed for students looking to build strong musical skills in a comprehensive music degree. The flexibility of years three and four allows students to gain a broad musical knowledge (for example, equal parts Music History, Music Performance and Music Theory and Composition) or to fuse two or more areas of musical study in a way that they are unable to in the other majors (for example performance and composition, music and technology, performance and early music studies). Admission to this major will depend on a statement of interest submitted to the Division Lead of Music at the end of the first year of studies.

This Major is for students with talent in performance who plan to become professional instrumentalists or singers. Admission as a Major in Performance will depend on an audition before a faculty jury at the end of the first or second year. In order to continue in Performance, students must earn an average grade of "B-" or better in courses in their area of specialization in each academic year. Students who do not achieve this average will be required to choose a different field of specialization.

## Admissions

### Program Admissions Information

## Admission to BMus Degrees

Prospective students wishing to enter any of the programs in the School of Creative and Performing Arts must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. The application deadline is March 1.

Admission requires evidence of successful completion of Royal Conservatory Level 8 Theory (formerly Advanced Rudiments) or the Division music theory diagnostic exam.

Admission to BMus Programs is also contingent on an audition and interview where applicants are assessed not only on actual performance, but also on talent, potential, and musicality.

### Audition

After submitting the University of Calgary undergraduate application for admission, all applicants will be expected to audition.

Auditions are conducted by the Music Committee. During the audition, applicants will be required to perform repertoire outlined by the audition repertoire suggestions document provided online. Sight-reading and technique may be included as part of the audition.

Auditions can be completed in-person (preferred) or submitted in a virtual format. In-person auditions typically occur in February /March.

More information about the BMUS Audition can be found online: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/how-apply/bmus-entrance-audition).

More information, deadlines and audition forms are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs](https://arts.ucalgary.ca/creative-performing-arts/future-students/undergraduate-music/undergraduate-programs).

BMus applicants who do not wish to audition in person may submit a video audition. If a recording is submitted, the student may be required to perform a live audition upon arrival. The recording should consist of approximately 10 minutes of music and conform to the requirements for auditions given above. The recording should have been made not more than two months prior to submission, should be of good quality and should be solo or solo with accompaniment. More information and deadlines for the receipt of video or are on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

### Audition Requirements

Applicants should be prepared to perform two pieces (except for piano and voice, who should be prepared to perform three pieces), each from a different style period; singers and instrumentalists must provide their own accompanist. Applicants should be prepared to perform for approximately 10 minutes; in addition, they will be asked to sight-read a short piece of music appropriate to their instrument or voice.

Applicants audition on the instrument of their choice or in voice. Those who would like to audition on two instruments may do so. The jury will determine which instrument (or voice) will become the major when the applicant is admitted to a Music program.

Previously accepted students who have not been enrolled in a performance practicum course for a year or more may be required to re-audition in order to determine if the previous level of attainment has been maintained.

### Guidelines

As an indication of the level for admission to Music, the following guidelines should be noted:

- Pianists and vocalists should be prepared to perform repertoire at the Grade X level.
- All others should be prepared to perform repertoire at the Grade VIII level. Students who have not reached the Grade VIII level, but who have a serious interest in a career in music, are encouraged to apply and to audition at the level of performance they have reached. Suggested audition repertoire guidelines are available on the Admission Requirements and Auditions section of the Music Undergraduate page: [arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/undergraduate).

## Bachelor of Music (BMus) - Major of Performance

Bachelor of Music students take a common first-year program of study and then select one of the following Major Fields of specialization:

- Composition [Music](#)
- Integrated Studies [BMus in In](#)

- Performance Music

Admission to each Major is conditional on:

1. The completion of Music 213, 214, 221, 223, 225, and 230 or 232 with an average of "B-" (2.70) or better in those courses.
2. Grades of "B" (3.00) or better in courses in their area of Performance.
3. Approval of the Division Lead.

Admission as a Major in Performance will depend on an audition before a faculty jury at the end of the first or second year. In order to continue in Performance, students must earn an average grade of "B-" or better in courses in that area of specialization in each academic year. Student who do not achieve this average will be required to choose a different field of specialization.

## Music Students: Keyboard Proficiency Tests

Music has a required minimum level of keyboard proficiency, which all Bachelor of Music students must achieve in order to graduate. Applicants who have never played a keyboard instrument, or whose proficiency does not meet the required level, will be advised to take remedial work in keyboard, either through the Music Division or privately.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Combined Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees

For other regulations related to the Faculty of Arts, see: [\*\*3. Faculty of Arts Regulations.\*\*](#)

#### Additional Comments:

#### Courses Constituting the Field of Music

##### Type

Completion Requirement

The BMus in Performance requires the successful completion of a minimum of 81 units to a maximum of 96 units in Courses Constituting the Field of Music while fulfilling the Program Requirements.

**Earn at least 81 credits from the following:**

- Courses Constituting the Field of Music

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

Common Core Program for BMus Majors

**Earn at least 39 credits from the following:**

- Common Core Program for BMus Majors

#### Music Performance Requirements

**Earn at least 36 credits from the following:**

- 9 units Music 427, 462
- 9 units Music 527, 562
- 9 units from Music Performance\* 321, 323, 325, 327, 329, 341, 345
- 9 units from Music Performance\* 301, 303, 305, 311, 313, 315

#### Music Options

6 units of Music History and Literature, Composition, Sonic Arts or Theory at the 300 level or above

**Earn at least 6 credits from the following:**

- Courses Constituting the Field of Music

#### Other Requirements

**Complete ALL of the following Course Sets:**

- 3 units School of Creative and Performing Arts 499
- Voice Major Language Requirement: Voice Majors are required to complete 6 units in a single language other than English.

**Additional Comments:**

#### Concentration in Sonic Arts for Music Majors

##### Type

Completion Requirement

#### Concentration in Sonic Arts for Music Majors

The Concentration in Sonic Arts is for BMus and BA (Music) students who have an interest in electroacoustic music, soundscape composition, computer music, multi-channel sound spatialization, interactive music involving instruments with computer, and sound design for video, film, media arts and stage production. Of the required courses, at least five are studio-based.

**Complete ANY of the following Requirement Sets:**

- Concentration in Sonic Arts

**Additional Comments:**

#### Degree Options

##### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees

**Additional Comments:**

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- a) A completed Bachelor of Music degree (or equivalent).
- b) A live audition or video/audio recording. Repertoire for the audition must contain representative works from a variety of historical periods and must demonstrate an advanced level of technical accomplishment. Recordings should be approximately 20-30 minutes in length. Live auditions are scheduled for early February. Specific dates and times can be arranged by contacting the Graduate Program Administrator at 403.220.5422 or email <mailto:artsgradsc@ucalgary.ca>.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- [MUSI621 Adv Performance Practicum I](#), [MUSI623 Adv Performance Practicum II](#) and [MUSI631 Res Tech & Biblio of Music](#)
- 6 units of graduate courses in Music Theory and Composition, Sonic Arts or Music History and Literature
- 3-unit graduate Music course, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses [MUSI661 Independent Study](#) and [MUED655 Independent Study](#).

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

### Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

Graduate students in the MMus Performance program are required to participate in one of the large ensembles for the duration of their degree and pianists are required to volunteer as accompanists. In lieu of the large ensemble requirement, pianists have the option to accompany two hours per week in a vocal or instrumental studio. Another option for pianists is to accompany a Junior or a Senior recital. The head of the performance area will make all ensemble or accompanying assignments. Students in graduate programs other than performance are not required to participate in an ensemble, although such participation is encouraged.

All master's degree programs require a thesis or recital or project equivalent (see below), prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be two public recitals featuring solo performances and chamber music. At least one Canadian work should be included in one of the recitals. The examining committee will evaluate the candidate's performance in both of the recitals. Recital proposals are to be submitted to the Graduate Program Administrator for approval by the Graduate Committee at least two months before each performance.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is five years for the Master of Music programs.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

## Required Examinations

A comprehensive oral examination based upon the literature of the instrument and more extensively upon the repertoire of the approved recital programs is required. This examination must be satisfactorily completed at least six weeks before the date of the second public performance required for the degree.

## Thesis Examinations

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## Overview

### General Program Information

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/music-master-music-thesis-based).

In addition to Faculties of Graduate Studies and Arts [requirements](#), Music requires:

- a) A completed Bachelor of Music degree (or equivalent).
- b) A live audition or video/audio recording. Repertoire for the audition must contain representative works from a variety of historical periods and must demonstrate an advanced level of technical accomplishment. Recordings should be approximately 20-30 minutes in length. Live auditions are scheduled for early February. Specific dates and times can be arranged by contacting the Graduate Program Administrator at 403.220.5422 or email <mailto:artsgradsc@ucalgary.ca>.
- c) One-page letter detailing their specific reasons for pursuing graduate study.
- d) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies and Arts requirements, Music, excluding qualifying courses, requires:

- MUSI631 Res Tech & Biblio of Music, MUSI651 Sel Top Electroacoustic Music and MUSI653 Projects in Computer Music
- 3-unit graduate Music course, and
- 6 units of approved graduate courses in any area.

No more than 6 units may be from independent study courses MUSI661 Independent Study and MUED655 Independent Study.

Diagnostic tests in music history and theory will be given to all entering master's students in order to determine if qualifying work in these areas is required. Qualifying work, if required, is normally completed in the first year of study.

#### Language

While there are no formal second-language requirements for the various programs of the Master of Music degree, students may be required to attain proficiency in a language other than English where this is deemed appropriate for the proposed thesis/project.

All master's degree programs require a thesis or recital or project equivalent, prepared under the guidance of a supervisor and approved by the Music Graduate Studies Committee.

The thesis is interpreted to be either a substantial sonic arts creative project with an accompanying research document or a portfolio of sonic arts creative work, realized in the second year of study, and an accompanying descriptive essay related to the portfolio. The project or portfolio of works will be performed or presented in public prior to the thesis defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

#### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the Flexible Grade Option (CG Grade) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Time Limit

Maximum completion time is five years for the Master of Music programs.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

### Required Examinations

A comprehensive oral examination encompassing all areas of the chosen field is required. This examination will take place following the completion of coursework and must be satisfactorily completed before the submission of the thesis/project. In (Sonic Arts) the exam questions will be based on a compiled bibliography (readings and works) relevant to the student's area of research.

### Thesis Examinations

In addition to Faculty of Graduate Studies requirements for Thesis Examinations, the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the Awards and Financial Assistance section of this Calendar and the program's website.

## Overview

### General Program Information

Program is suspended and not currently accepting applications.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [arts.ucalgary.ca/schools/creative-performing-arts/music/graduate](https://arts.ucalgary.ca/schools/creative-performing-arts/music/graduate)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/music-phd-thesis>.

In addition to Faculties of Graduate Studies and Arts [requirements](#), the School of Creative and Performing Arts requires:

- a) A recognized master's degree or equivalent.
- b) One-page letter detailing their specific reasons for pursuing graduate study.
- c) Two reference letters.
- d) A portfolio of sonic arts creative and/or research projects, and an extended research paper.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students should consult the Graduate Program Director before registering in courses.

In addition to Faculties of Graduate Studies [requirements](#) and Arts requirements, Music, excluding qualifying courses, requires:

Students entering the PhD program will normally be required to complete at least 18 units as described below. In addition, [MUSI631 Res Tech & Biblio of Music](#) is required unless this course or its equivalent has been completed as part of a master's degree.

- [MUSI751 Adv Top Electroacoustic Music](#) and [MUSI753 Adv Projects in Computer Music](#)
- 12 units of additional approved graduate courses.

### Language

Candidates are required to demonstrate a reading knowledge of one language other than English.

The thesis is interpreted to be a cohesive sonic arts creative project with an accompanying research document approved by the supervisory committee. The project will be performed or presented in public prior to the thesis defence.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Music program in the School of Creative and Performing Arts will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Music Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Maximum completion time is six years for the doctoral program.

#### **Supervisory Assignments and Required Examinations**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Supervisory Assignments**

The Graduate Program Director will function as the interim supervisor for all newly admitted students during their first term. This arrangement will allow students to use their first term as an opportunity to meet with faculty and to secure a permanent supervisor.

#### **Required Examinations**

##### **Candidacy**

Doctoral students must pass written Field of Study examinations and an Oral Examination on the Thesis Proposal. For complete details of the examination format and other candidacy requirements, see [Music PhD Candidacy Policy](#).

##### **Thesis Examination**

In addition to Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

###### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

###### *Composition of the Committee*

Normally, the Internal Examiner is external to the home program.

Thesis examinations of written theses are open.

#### **Financial Assistance**

##### **Type**

Completion Requirement

##### **Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar and the program's website.

## **Languages, Ling, Literatures & Cultures; School of Department The School of Languages, Linguistics, Literatures and Cultures (SLLLC)**

The School offers programs in Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and Linguistics, along with courses in Indigenous Languages. It is located in Craigie Hall.

#### **Contact Information:**

Location: Social Sciences 1152

Phone Number: 403.220.5300

Fax Number: 403.289.1123

Email: [slllc@ucalgary.ca](mailto:slllc@ucalgary.ca)

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](http://arts.ucalgary.ca/languages-linguistics-literatures-cultures)

#### **Program Advice:**

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

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### Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

The School recognizes the special role and place that French, as one of our country's two official languages, has played and continues to play in the socio-historical context of Canada. The French programs encompass French Canada, French-speaking Europe, francophone African literatures, critical theories, sociolinguistics and second language teaching.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

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### Courses Without Prerequisites

Besides the beginners' language courses and Linguistics 201 ([LING201 Introduction to Linguistics I](#)), which serve as entry points into the programs administered by the School of Languages, Linguistics, Literatures and Cultures, a number of no-prerequisite courses of broad interest taught in the official languages (English or French) are available to all students. The complete list is available at [arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/courses](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/courses).

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### Placement in Language Courses

It is essential that students register in the appropriate level of language course to ensure that they are suited for the level of language instruction in the course and to ensure that all students enrolled in a course are at a similar level of language competence. See [Placement in Language Courses](#) on the School of Languages, Linguistics, Literatures and Cultures website.

Students who misrepresent their language competence will be subject to a charge of academic dishonesty under the regulations on academic misconduct outlined in [K.3](#) in the Academic Regulations section of the University Calendar.

For the purposes of the School of Languages, Literatures, Linguistics and Culture, a 'native speaker' is a student who was raised and schooled in one of the languages that we teach; a 'heritage language' learner is a student who was raised in one of the languages we teach but not schooled in that language.

Native speakers are not eligible to take beginners' or, in some programs, intermediate level language courses in their native language nor may they receive credit by special assessment or receive advanced credit. They are eligible to take literature, linguistics, and culture courses.

In contrast, heritage language learners may be able to take language courses for credit but must contact the respective language program's advisor within the School of Languages, Linguistics, Literatures and Cultures in order to determine the appropriate course in which to register. Heritage language learners who fail to consult with the language advisor may be removed from the course by the drop deadline.

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### Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are

asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

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### Placement in Arabic and Chinese Courses

All students wishing to take a course in Arabic or Chinese for the first time must contact the School of Languages, Linguistics, Literatures and Cultures in order to determine the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

For more information please consult the School website at [arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement) (Arabic) and [arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement) (Chinese).

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### Placement in French Courses

Les étudiants doivent choisir comme premier demi-cours celui qui correspond à leurs connaissances de la langue française. Les étudiants qui ont suivi French 30 ou French N30 s'inscriront d'habitude au cours French 213 (**FREN213 Intermediate French**). Ceux qui ont suivi French 30N, 30S, 31, French Language Arts 30 ou leur équivalent s'inscriront d'habitude au cours French 225 (**FREN225 La Grammaire par les textes I**). Il est fortement recommandé, en cas de doute, de s'adresser à l'École de langues, linguistique, littératures et cultures avant la période des inscriptions.

Les étudiants de langue maternelle française et ceux dont le niveau d'études dans ces langues est supérieur à celui du diplôme de fin d'études secondaires (y compris les étudiants provenant d'un programme bilingue ou d'immersion) doivent obligatoirement consulter l'École de langues, linguistique, littératures et cultures, en la personne du conseiller pédagogique (programme de français), pour se faire diriger vers le(s) cours conforme(s) à leur niveau.

Students should choose a first course in French appropriate to their command of the language. Students with French 30 or French N30 should enrol in French 213 (**FREN213 Intermediate French**). Those with credit in French 30N, 30S, 31, French Language Arts 30, or equivalent should enrol in French 225 (**FREN225 La Grammaire par les textes I**). In all cases of doubt as to proper placement, students are strongly urged to seek the advice of the School of Languages, Linguistics, Literatures and Cultures before the registration period.

Native French speakers, and those whose existing level of study is higher than completion of the high school courses above (including students from bilingual or immersion programs) must consult the French program advisor in the School of Languages, Linguistics, Literatures and Cultures for placement advice on courses appropriate to their existing language competence.

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### Additional Information for Students with High School German

Students who have completed German 30 normally begin with German 331 (**GERM331 Continuing German I**).

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### Additional Information for Students with Previous Knowledge of Spanish

Students with Spanish 30 should enrol in Spanish 203 (**SPAN203 Beginners' Spanish II**). Those with credit in Spanish Language Arts 30, or a DELE Spanish Diploma (A2 or B1) should enrol in Spanish 321 (**SPAN321 Contemp Hispanic Cultures**).

Spanish-speaking students or students with some prior knowledge of Spanish (including graduates of the IB program or a bilingual or immersion program) should enrol in Spanish 321 (**SPAN321 Contemp Hispanic Cultures**). In all cases of doubt as to proper placement, students are strongly urged to seek the advice of the School of Languages, Linguistics Literatures and Cultures, through the Undergraduate Advisor for Spanish, to be placed in a course corresponding to their level of language competence.

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### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

### Le Centre français/The French Centre

Le Centre français est situé à Craigie Hall (C301). Le Centre propose un choix d'activités culturelles et gère "Le francophone," lieu de rencontre et centre multimédia où l'on peut se détendre dans une ambiance francophone.

Le Centre gère aussi des cours accrédités donnés en français dans différentes disciplines (French Language Instruction Program ou FLIP) permettant à l'étudiant de renforcer sa maîtrise de la langue. Pour de plus amples renseignements, prière de s'adresser au Centre français, 403.220.7226, [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

The French Centre is located in Craigie Hall (C301). The Centre offers a variety of cultural activities, and operates "Le francophone," a drop-in and media learning centre for those wishing to relax in a francophone atmosphere.

Through the French Language Instruction Program (FLIP), credit courses are offered in various disciplines providing students with opportunities to use and improve their French. Detailed information may be obtained from the Centre at 403.220.7226 or [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

### Programs

#### Overview

General Program Information

#### Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](http://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

#### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](http://arts.ucalgary.ca/advising).

#### Placement in Arabic Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

### Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

### Program Details

Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

Additional Comments:

#### Courses Constituting the Field of Arabic Language and Muslim Cultures

Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of Arabic Language and Muslim Cultures while fulfilling the Program Requirements.

Earn at least 30 credits from the following:

- Courses Constituting the Field of Arabic Language and Muslim Cultures

Additional Comments:

#### Program Requirements

Type

Completion Requirement

Specified Courses - Minor Program

Earn at least 18 credits from the following:

- 6 units Arabic Language and Muslim Cultures 331 and 334
- 3 units Arabic Language and Muslim Cultures 317 or 319
- 3 units Arabic Language and Muslim Cultures 358 or 360
- 3 units of a course labelled Arabic Language and Muslim Cultures at the 400 level

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Chinese Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of East Asian Language Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of East Asian Language Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of East Asian Language Studies

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Specified Courses - Minor Program

**Earn at least 30 credits from the following:**

- Chinese Language: Chinese 205, 207, 229, 280, 281, 301, 303, 304, 305, 331, 333, 334, 335, 341, 353, 371, 373, 401, 403, 431, 561
- Chinese Studies: Art History 325; Chinese 310, 317\*, 341, 353, 355, 357\*, 363, 371, 373, 411, 431, 461, 561

*\*A maximum of 6 units may be counted towards major field requirements.*

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Chinese and Japanese Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA East Asian Language Studies Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

Students who receive advanced placement at the 331 level or higher in both Chinese and Japanese are ineligible for this program.

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

### Courses Constituting the Field of East Asian Language Studies

#### Type

Completion Requirement

Students must successfully complete a minimum of 45 units to a maximum of 60 units in Courses Constituting the Field of East Asian Language Studies while fulfilling the Program Requirements.

**Earn at least 45 credits from the following:**

- Courses Constituting the Field of East Asian Language Studies

## Additional Comments:

## Program Requirements

### Type

### Completion Requirement

#### Major-Field - Specified Courses

Students choose either Chinese or Japanese as the primary language of study and the other as their secondary language of study. Students who receive advanced placement in Chinese or Japanese at the 331 level or higher must choose the language in which they have not received advanced placement as their primary language of study.

Students who receive advanced placement at the 331 level or higher in both Chinese and Japanese are ineligible for this program.

1. *Primary Language of Study*: 24 units from the list of either "Chinese Language" or "Japanese Language" courses.

Of these 24 units:

- Chinese: at least 3 units must come from Chinese 401, 403, 431
- Japanese: at least 3 units must come from Japanese 441, 451, 471

2. *Secondary Language of Study*: 6 units from the list of either "Japanese Language" or "Chinese Language" courses in the language not chosen for Requirement 1 above.

3. *Primary Area of Studies*: 9 units from the list of either "Chinese Studies" or "Japanese Studies" courses, whichever corresponds to the primary language of study.

4. *Secondary Area of Studies*: 3 units from the list of either "Japanese Studies" or "Chinese Studies" courses, whichever corresponds to the secondary language of study.

#### Earn at least 42 credits from the following:

- Chinese Language: Chinese 205, 207, 229, 280, 281, 301, 303, 304, 305, 331, 333, 334, 335, 341, 353, 371, 373, 401, 403, 431, 561
- Japanese Language: Japanese 205, 207, 301, 303, 310, 312, 331, 333, 371, 373, 441, 451, 471
- Chinese Studies: Art History 325; Chinese 310, 317\*, 341, 353, 355, 357\*, 363, 371, 373, 411, 431, 461, 561
- Japanese Studies: Japanese 201, 309, 317, 323, 325, 327, 341, 423, 461

#### Major-Field - Specified Courses

#### Earn at least 3 credits from the following:

- Capstone: 3 units East Asian Language Studies 501

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates

- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Overlapping Programs

Programs in East Asian Language Studies cannot be taken in conjunction with programs in East Asian Studies. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees. Students cannot combine the East Asian Language Studies major with either a Chinese or Japanese minor.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Chinese and Japanese Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirement

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

### Courses Constituting the Field of East Asian Studies

Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of East Asian Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of East Asian Studies

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

#### Specified Courses - Minor Program

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of East Asian Studies with at least 18 units at the 300 level or above, including:

**Earn at least 6 credits from the following:**

- 6 units East Asian Studies 201 and one of Chinese 317 or 355 or Japanese 317

#### Language Courses/Required Options - Minor Program

- *Language:* 6 units from language courses in Courses Constituting the Field of East Asian Studies
- At least 18 units chosen from Courses Constituting the Field of East Asian Studies with at least 12 units from list of courses with a Focus on East Asia.

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of East Asian Studies

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Chinese and Japanese Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA East Asian Studies Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of East Asian Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units in Courses Constituting the Field of East Asian Studies while fulfilling the Program Requirements.

##### Earn at least 42 credits from the following:

- Courses Constituting the Field of East Asian Studies

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

Earn at least 21 credits from the following:

- Core Courses: 9 units including East Asian Studies 201, 531, and 3 units from Chinese 317, 355, Japanese 317
- Language: 12 units from either: (a) Chinese 205, 207, 229, 301, 303, 331, 333, 341, 353, 371, 373, 401, 403, 431, 561; or (b) Japanese 205, 207, 301, 303, 331, 333, 371, 373, 441, 451, 471

## Major-Field - Required Options

An additional 21 units chosen from Courses Constituting the Field of East Asian Studies with at least 15 units chosen from the list of courses with a Focus on East Asia.

### Earn at least 21 credits from the following:

- Courses Constituting the Field of East Asian Studies

## Other Requirements

### Earn at least 6 credits from the following:

- Methods & Frameworks: 3 units from: Philosophy 201, Religious Studies 205
- Methods & Frameworks: 3 units from: Anthropology 203, Linguistics 201, Political Science 201, Sociology 201

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

## Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in French Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Admissions

## Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Program Requirement

**Earn at least 30 credits from the following:**

- All courses labelled French (FREN)

Students must complete a minimum of 30 units to a maximum of 36 units in courses labelled French (FREN), including at least 18 units at the 300 level or above.

**Note:** 6 units from the French Language Instruction Program (FLIP) may be counted toward the minor.

Les étudiants doivent suivre un minimum de 30 unités et un maximum de 36 unités puisées dans les cours portant l'étiquette French (FREN). Ce programme doit inclure au moins 18 unités au niveau 300 ou supérieur.

**Remarque:** Les cours FLIP (French Language Instruction Program) peuvent compter pour 6 unités.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

The School recognizes the special role and place that French, as one of our country's two official languages, has played and continues to play in the socio-historical context of Canada. The French programs encompass French Canada, French-speaking Europe, francophone African literatures, critical theories, sociolinguistics and second language teaching.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

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### Placement in French Courses

Les étudiants doivent choisir comme premier demi-cours celui qui correspond à leurs connaissances de la langue française. Les étudiants qui ont suivi French 30 ou French N30 s'inscriront d'habitude au cours French 213. Ceux qui ont suivi French 30N, 30S, 31, French Language Arts 30 ou leur équivalent s'inscriront d'habitude au cours French 225. Il est fortement recommandé, en cas de doute, de s'adresser à l'École de langues, linguistique, littératures et cultures avant la période des inscriptions.

Les étudiants de langue maternelle française et ceux dont le niveau d'études dans ces langues est supérieur à celui du diplôme de fin d'études secondaires (y compris les étudiants provenant d'un programme bilingue ou d'immersion) doivent obligatoirement consulter l'École de langues, linguistique, littératures et cultures, en la personne du conseiller pédagogique (programme de français), pour se faire diriger vers le(s) cours conforme(s) à leur niveau.

Students should choose a first course in French appropriate to their command of the language. Students with French 30 or French N30 should enrol in French 213. Those with credit in French 30N, 30S, 31, French Language Arts 30, or equivalent should enrol in French 225. In all cases of doubt as to proper placement, students are strongly urged to seek the advice of the School of Languages, Linguistics, Literatures and Cultures before the registration period.

Native French speakers, and those whose existing level of study is higher than completion of the high school courses above (including students from bilingual or immersion programs) must consult the French program advisor in the School of Languages, Linguistics, Literatures and Cultures for placement advice on courses appropriate to their existing language competence.

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

### Le Centre français/The French Centre

Le Centre français est situé à Craigie Hall (C301). Le Centre propose un choix d'activités culturelles et gère "Le francophone," lieu de rencontre et centre multimédia où l'on peut se détendre dans une ambiance francophone.

Le Centre gère aussi des cours accrédités donnés en français dans différentes disciplines (French Language Instruction Program ou FLIP) permettant à l'étudiant de renforcer sa maîtrise de la langue. Pour de plus amples renseignements, prière de s'adresser au Centre français, 403.220.7226, [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

The French Centre is located in Craigie Hall (C301). The Centre offers a variety of cultural activities, and operates "Le francophone," a drop-in and media learning centre for those wishing to relax in a francophone atmosphere.

Through the French Language Instruction Program (FLIP), credit courses are offered in various disciplines providing students with opportunities to use and improve their French. Detailed information may be obtained from the Centre at 403.220.7226 or [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA French Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of French

##### Type

Completion Requirement

Students must successfully complete a minimum of 48 units to a maximum of 60 units in Courses Constituting the Field of French while fulfilling the Program Requirements.

##### Earn at least 48 credits from the following:

- Courses Constituting the Field of French

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Exigences pour le Baccalauréat en Français

##### Earn at least 21 credits from the following:

- Niveau 200: 9 unités French 213, 225 et 227
- Niveau 300: 12 unités fournies par les cours French 329, 339, 353, 369

#### Exigences pour le Baccalauréat en Français

- Niveau 300: en outre 3 unités à puiser dans les cours faisant partie du champ d'études du français\*\*

- Niveau 400: 15 unités à puiser dans les cours faisant partie du champ d'études du français\*\*
- Niveau 500: 9 unités à puiser dans les cours faisant partie du champ d'études du français\*\*

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of French

*\*\*Seules 3 unités provenant des cours Language ou Romance Studies seront comptées vers la concentration en français.*

Remarques:

- Les étudiants qui sont placés dans la série des cours de langue à un niveau supérieur au cours French 213 doivent remplacer les cours dont ils sont dispensés par d'autres cours portant l'étiquette French (FREN) de niveau 300 (ou plus haut).
- L'École de langues, linguistique, littératures et cultures recommande aux étudiants dont le français est la langue seconde de choisir French 489.01 (Phonologie).
- L'École de langues, linguistique, littératures et cultures recommande aux étudiants d'inclure parmi leurs options des cours FLIP (French Language Instruction Program) enseignés en français dans d'autres départements. Un cours FLIP (French Language Instruction Program) peut compter pour 3 unités.
- Dans les cas de double spécialisation français/espagnol, seules 12 unités sont exigées au niveau 400, et seules 6 unités sont exigées au niveau 500.

#### Major-Field - Specified Courses

**Earn at least 21 credits from the following:**

- 200-Level Courses: 9 units French 213, 225 and 227
- 300-Level Courses: 12 units French 329, 339, 353, 369

#### Major-Field - Required Options

- 300-Level Courses: 3 additional units in Courses Constituting the Field of French\*\*
- 400-Level Courses: 15 units in Courses Constituting the Field of French\*\*
- 500-Level Courses: 9 units in Courses Constituting the Field of French\*\*

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of French

*\*\*Only 3 units from courses labelled Language or Romance Studies may be counted towards the major field requirements.*

Notes:

- Students who place higher than French 213 in the language-course sequence must replace those language courses by other senior-level courses labelled French (FREN).
- The School of Languages, Linguistics, Literatures and Cultures recommends that non-francophone students choose French 489.01 (Phonology) as the required course at the 400 level.
- The School of Languages, Linguistics, Literatures and Cultures recommends that students include among their options FLIP (French Language Instruction Program) courses taught in French in other departments. Three units FLIP (French Language Instruction Program) may be counted toward the French Major.
- In the case of French/Spanish double majors, only 12 units are required at the 400 level and only 6 units are required at the 500 level.

#### Additional Comments:

#### Degree Options

##### Type

##### Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Honours Degrees
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Concurrent BA (French)/BEd

**Overlapping Programs**

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

The School recognizes the special role and place that French, as one of our country's two official languages, has played and continues to play in the socio-historical context of Canada. The French programs encompass French Canada, French-speaking Europe, francophone African literatures, critical theories, sociolinguistics and second language teaching.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

## Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an

environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

### Placement in French Courses

Les étudiants doivent choisir comme premier demi-cours celui qui correspond à leurs connaissances de la langue française. Les étudiants qui ont suivi French 30 ou French N30 s'inscriront d'habitude au cours French 213. Ceux qui ont suivi French 30N, 30S, 31, French Language Arts 30 ou leur équivalent s'inscriront d'habitude au cours French 225. Il est fortement recommandé, en cas de doute, de s'adresser à l'École de langues, linguistique, littératures et cultures avant la période des inscriptions.

Les étudiants de langue maternelle française et ceux dont le niveau d'études dans ces langues est supérieur à celui du diplôme de fin d'études secondaires (y compris les étudiants provenant d'un programme bilingue ou d'immersion) doivent obligatoirement consulter l'École de langues, linguistique, littératures et cultures, en la personne du conseiller pédagogique (programme de français), pour se faire diriger vers le(s) cours conforme(s) à leur niveau.

Students should choose a first course in French appropriate to their command of the language. Students with French 30 or French N30 should enrol in French 213. Those with credit in French 30N, 30S, 31, French Language Arts 30, or equivalent should enrol in French 225. In all cases of doubt as to proper placement, students are strongly urged to seek the advice of the School of Languages, Linguistics, Literatures and Cultures before the registration period.

Native French speakers, and those whose existing level of study is higher than completion of the high school courses above (including students from bilingual or immersion programs) must consult the French program advisor in the School of Languages, Linguistics, Literatures and Cultures for placement advice on courses appropriate to their existing language competence.

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

### Le Centre français/The French Centre

Le Centre français est situé à Craigie Hall (C301). Le Centre propose un choix d'activités culturelles et gère "Le francophone," lieu de rencontre et centre multimédia où l'on peut se détendre dans une ambiance francophone.

Le Centre gère aussi des cours accrédités donnés en français dans différentes disciplines (French Language Instruction Program ou FLIP) permettant à l'étudiant de renforcer sa maîtrise de la langue. Pour de plus amples renseignements, prière de s'adresser au Centre français, 403.220.7226, [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

The French Centre is located in Craigie Hall (C301). The Centre offers a variety of cultural activities, and operates "Le francophone," a drop-in and media learning centre for those wishing to relax in a francophone atmosphere.

Through the French Language Instruction Program (FLIP), credit courses are offered in various disciplines providing students with opportunities to use and improve their French. Detailed information may be obtained from the Centre at 403.220.7226 or [ucalgary.ca/frenchcentre/](http://ucalgary.ca/frenchcentre/).

### Admissions

Program Admissions Information

#### Admission to the Major

Prospective students wishing to enter the BA French Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

#### Admission to Honours in French, Language and Culture, Linguistics and Spanish

The Faculty of Arts procedures for Admission to Honours established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of French

##### Type

Completion Requirement

Students must successfully complete a minimum of 60 units to a maximum of 72 units in Courses Constituting the Field of French while fulfilling the Program Requirements.

##### Earn at least 60 credits from the following:

- Courses Constituting the Field of French

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Exigences pour le Baccalauréat Spécialisé en Français

##### Earn at least 30 credits from the following:

- Niveau 200: 9 unités French 213, 225 et 227
- Niveau 300: 12 unités fournies par les cours French 329, 339, 353, 369
- Niveau 500: 3 unités French 511
- Le Mémoire de Baccalauréat spécialisé: 6 unités French 598

#### Exigences pour le Baccalauréat Spécialisé en Français

- Niveau 300: 3 unités additionnelles à puiser dans les cours faisant partie du champ d'études du français\*
- Niveau 400: 18 unités à puiser dans les cours faisant partie du champ d'études du français\*

- Niveau 500: 9 unités à puiser dans les cours faisant partie du champ d'études du français\*

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of French

*\*Seules 3 unités provenant des cours Language ou Romance Studies seront comptées vers la concentration en français.*

**Remarques:**

- Les étudiants qui sont placés la série des cours de langue à un niveau supérieur au cours French 213 doivent remplacer les cours dont ils sont dispensés par d'autres cours portant l'étiquette French (FREN) de niveau 300 (ou plus haut).
- L'École de langues, linguistique, littératures et cultures recommande aux étudiants dont le français est la langue seconde de choisir French 489.01 (Phonologie).
- L'École de langues, linguistique, littératures et cultures recommande aux étudiants d'inclure parmi leurs options des cours FLIP (French Language Instruction Program) enseignés en français dans d'autres départements. Un cours FLIP (French Language Instruction Program) peut compter pour 3 unités.
- L'École de langues, linguistique, littératures et cultures recommande fortement aux étudiants de baccalauréat spécialisé d'effectuer un voyage d'études d'au moins un semestre dans un environnement francophone.

Major-Field - Specified Courses

**Earn at least 30 credits from the following:**

- 200-Level Courses: 9 units French 213, 225 and 227
- 300-Level Courses: 12 units French 329, 339, 353, 369
- 500-Level Courses: 3 units French 511
- Honours Thesis: 6 units French 598

Major-Field - Required Options

- 300-Level Courses: 3 additional units in Courses Constituting the Field of French\*
- 400-Level Courses: 18 units in Courses Constituting the Field of French\*
- 500-Level Courses: 9 additional units in Courses Constituting the Field of French\*

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of French

*\*Only 3 units from courses labelled Language or Romance Studies may be counted towards the major field requirements.*

**Notes:**

- Students who place higher than French 213 in the language-course sequence must replace those language courses by other senior-level courses labelled French (FREN).
- It is recommended that non-francophone students choose French 489.01 (Phonology) as the required course at the 400 level.
- It is recommended that students include among their options FLIP (French Language Instruction Program) courses taught in French in other departments. Three units FLIP (French Language Instruction Program) may be counted toward the French Honours Program.
- It is strongly recommended that students in the Honours Program study for at least one semester in a Francophone environment.

**Additional Comments:**

**Degree Options**

**Type**

**Completion Requirement**

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

## Overlapping Programs

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in German Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirement

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

## Courses Constituting the Field of German

**Type**

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of German while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of German

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

Specified Courses - Minor Program

Students must complete a minimum of 30 units to a maximum of 36 units in courses labelled German, including at least 18 units at the senior level, including:

**Earn at least 3 credits from the following:**

- Core Courses: 3 units German 349 or 353

Notes:

- A maximum of 6 units of German 357 and/or 359 may be credited towards the minor.
- A maximum of 6 units from German studies in a different discipline, subject to approval by the School of Languages, Linguistics, Literatures and Cultures, may be credited towards the minor.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures)

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Introduction Italian Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of Italian Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Italian Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Italian Studies

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Program Requirements

Complete 30 to 36 units from [Courses Constituting the Field of Italian Studies](#) with the following regulations:

- A maximum of 6 units from courses labelled Romance Studies (ROST),
- A maximum of 6 units from the *Contextual Courses* in Courses Constituting the Field of Italian Studies, and
- At least 18 units must be at the senior level.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Japanese Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

#### Courses Constituting the Field of East Asian Language Studies

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of East Asian Language Studies while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of East Asian Language Studies

**Additional Comments:**

#### Program Requirements

##### Type

Completion Requirement

Specified Courses - Minor Program

**Earn at least 30 credits from the following:**

- Japanese Language: Japanese 205, 207, 301, 303, 310, 312, 331, 333, 371, 373, 441, 451, 471
- Japanese Studies: Japanese 201, 309, 317, 323, 325, 327, 341, 423, 461

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

The School recognizes the special role and place that French, as one of our country's two official languages, has played and continues to play in the socio-historical context of Canada. The French programs encompass French Canada, French-speaking Europe, francophone African literatures, critical theories, sociolinguistics and second language teaching.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

## Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

## Placement in Arabic and Chinese Courses

All students wishing to take a course in Arabic or Chinese for the first time must contact the School of Languages, Linguistics, Literatures and Cultures in order to determine the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

For more information please consult the School website at [arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement) (Arabic) and [arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement) (Chinese).

## Study Abroad

# UCalgary

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Language and Culture Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Language and Culture

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Language and Culture while fulfilling the Program Requirements.

##### Earn at least 42 credits from the following:

- Courses Constituting the Field of Language and Culture

#### Additional Comments:

#### Program Requirements

##### Type

## Completion Requirement

### Major-Field - Specified Courses

Earn at least 12 credits from the following:

- Core: 3 units from Language 200 or Linguistics 201
- Core: 9 units from Language 301, 451, 501

### Major-Field - Required Options

Language Area(s): 30 units of which 3 units must be at the 400 or 500 level, chosen from one of the following:

1. a minor: 30 units in one of the language areas (declared minor): ALMC, GERM, ITST or RUSS.

OR

2. a concentration: 18 units in the field of a language area (declared concentration); and an additional 12 units in the field of a single different language area Arabic Language and Muslim Cultures, German, Italian or Russian.

Earn at least 30 credits from the following:

- Courses Constituting the Field of Arabic Language and Muslim Cultures
- Courses Constituting the Field of German
- Courses Constituting the Field of Italian Studies
- Courses Constituting the Field of Russian

Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete **ANY** of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

#### Overlapping Programs

Programs in Language and Culture can only be combined with the major program in Linguistics and Languages if the language or languages in the two programs are different. Students in the Language and Culture program cannot complete a minor in the language that is their primary or secondary language. This restriction applies to Major-plus-minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Additional Comments:

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

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Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

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## Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

## Placement in Arabic and Chinese Courses

All students wishing to take a course in Arabic or Chinese for the first time must contact the School of Languages, Linguistics, Literatures and Cultures in order to determine the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

For more information please consult the School website at [arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement) (Arabic) and [arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement) (Chinese).

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Language and Culture Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Admission to Honours in French, Language and Culture, Linguistics and Spanish

The Faculty of Arts procedures for Admission to Honours established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Language and Culture

##### Type

Completion Requirement

Students must successfully complete a minimum of 54 units to a maximum of 72 units in Courses Constituting the Field of Language and Culture while fulfilling the Program Requirements.

##### Earn at least 54 credits from the following:

- Courses Constituting the Field of Language and Culture

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 18 credits from the following:

- Core: 3 units from Language 200 or Linguistics 201
- Core: 9 units from Language 301, 451, 501
- Honours Thesis: Language 591

## Major-Field - Required Options

Language Area(s): 36 units, of which 3 units must be at the 400 or 500 level, chosen from one of the following:

1. a minor: 30 units in one of the language areas (declared minor): **ALMC**, **GERM**, **ITST** or **RUSS**; and 6 additional units in that same language area

OR

2. two declared concentrations: 18 units in the field of a primary language area; and 18 units in the field of a secondary language area: Arabic Language and Muslim Cultures, German, Italian or Russian.

**Earn at least 36 credits from the following:**

- Courses Constituting the Field of Arabic Language and Muslim Cultures
- Courses Constituting the Field of German
- Courses Constituting the Field of Italian Studies
- Courses Constituting the Field of Russian

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

### Overlapping Programs

Programs in Language and Culture can only be combined with the major program in Linguistics and Languages if the language or languages in the two programs are different. Students in the Language and Culture program cannot complete a minor in the language that is their primary or secondary language. This restriction applies to Major-plus-minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

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The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

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### Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

### Placement in Arabic and Chinese Courses

All students wishing to take a course in Arabic or Chinese for the first time must contact the School of Languages, Linguistics, Literatures and Cultures in order to determine the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

For more information please consult the School website at [arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/arabic-language-muslim-cultures/assessment-and-placement) (Arabic) and [arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/chinese/home/assessment-and-placement) (Chinese).

### Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Linguistics and Language Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

## Faculty of Arts Requirements

### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

### Additional Comments:

## Courses Constituting the Field of Linguistics and Language

### Type

Completion Requirement

Students must successfully complete a minimum of 24 units to a maximum of 30 units in Courses Constituting the Field of Linguistics and Language while fulfilling the Program Requirements.

#### Earn at least 24 credits from the following:

- Courses Constituting the Field of Linguistics and Language

### Additional Comments:

## Program Requirements

### Type

Completion Requirement

#### Major-Field - Specified Courses

#### Earn at least 24 credits from the following:

- 15 units Linguistics 201, 301, 303, 341, 353
- 3 units from: Linguistics 319, 407 and 455
- An additional 6 units in Linguistics.
- At least 6 units, inclusive of the courses used to fulfill requirements above, must be at the 400 level or above.

#### Major-Field - Required Options

*Language Requirements:* Students must successfully complete a minimum of 24 units to a maximum of 30 units in accordance with the requirements for one of the following language options:

#### Fulfill ANY of the following requirements:

##### Arabic Option:

A minimum of 24 units from courses labelled Arabic Languages and Muslim Cultures, including **Arabic Language and Muslim Cultures 334**, and at least an additional 6 units at the 400 level.

#### Earn at least 24 credits from the following:

- All courses labelled Arabic Languages and Muslim Cultures (ALMC)

OR

French Option:

A minimum of 24 units from courses labelled, including **French 329**, and at least an additional 6 units at the 400 and/or 500 level, of which 3 units must be in literature from **Courses Constituting the Field of French**. **French 489.01** is strongly recommended when available.

Earn at least 24 credits from the following:

- All courses labelled French (FREN)

Students choosing the French option and beginning in French 213 should be aware that 30 units will normally be required to complete the French option requirements.

OR

Spanish Option:

A minimum of 24 units from courses labelled Spanish, including **Spanish 405**, and at least an additional 6 units at the 400 and/or 500 level, of which 3 units must be in literature from **Courses Constituting the Field of Spanish**. **Spanish 475** is strongly recommended when available.

Earn at least 24 credits from the following:

- All courses labelled Spanish (SPAN)
- Spanish Literature Courses: Spanish 421, 423, 437, 499, 512, 575

OR

Italian Option:

A minimum of 24 units from courses labelled Italian including at least 6 units at the 400 and/or 500 level.

Earn at least 24 credits from the following:

- All courses labelled Italian (ITAL)

OR

German Option:

A minimum of 24 units from courses labelled German, including **German 413** and **415**, and at least an additional 3 units at the 400 or 500 level.

Earn at least 24 credits from the following:

- All courses labelled German (GERM)

OR

Russian Option:

A minimum of 24 units from courses labelled Russian, including **Russian 332** and **334**, and at least 6 units at the 400 and/or 500 level.

Earn at least 24 credits from the following:

- All courses labelled Russian (RUSS)

OR

Japanese Option:

A minimum of 24 units from courses labelled Japanese, including **Japanese 333**, and at least 6 units at the 400 and/or 500 level.

Earn at least 24 credits from the following:

- All courses labelled Japanese (JPNS)

OR

Chinese Option:

A minimum of 24 units from courses labelled Chinese, including **Chinese 333**, and at least 6 units at the 400 and/or 500 level.

Earn at least 24 credits from the following:

- All courses labelled Chinese (CHIN)

OR

Ancient and Classical Languages Option:

From the courses listed below in a maximum of two languages, students must successfully complete a minimum of 24 units to a maximum of 30 units, including a minimum of 3 units at the 400 or 500 level:

Earn at least 24 credits from the following:

- Greek Language: Greek 201, 203, 301, 303, 401, 403, 551
- Latin Language: Latin 201, 203, 205, 207, 301, 303, 401, 403, 551
- Hebrew Language: Religious Studies 300, 302, 491\*
- Sanskrit Language: Religious Studies 310, 312, 491\*
- Tibetan Language: Religious Studies 314, 316, 491\*
- Classical Chinese: Religious Studies 320, 322, 491\*

*\*Applicable only when the content of the course is appropriate with approval of the Linguistics Undergraduate Advisor.*

Additional Comments:

Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Overlapping Programs

Programs in Linguistics cannot be taken in conjunction with the program in Linguistics and Language. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only

be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Programs in Language and Culture can only be combined with the major program in Linguistics and Languages if the language or languages in the two programs are different. Students in the Language and Culture program cannot complete a minor in the language that is their primary or secondary language. This restriction applies to Major-plus-minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

A Psychology major with a minor in Speech-Language Sciences may not be combined with a minor in Linguistics.

## Program Details

Simple Requisites

**Faculty of Arts Requirement**

**Type**

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

**Courses Constituting the Field of Linguistics**

**Type**

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of Linguistics while fulfilling the Program Requirements.

Earn at least 30 credits from the following:

- Courses Constituting the Field of Linguistics

Additional Comments:

### Program Requirements

#### Type

Completion Requirement

#### Specified Courses - Minor Program

Students must successfully complete a minimum of 30 units to a maximum of 36 units from **Courses Constituting the Field of Linguistics** with at least 18 units at the 300 level or above including:

Earn at least 9 credits from the following:

- 9 units Linguistics 201, 301 and 303

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

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## Study Abroad

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Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Linguistics Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Linguistics

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Linguistics while fulfilling the Program Requirements.

##### Earn at least 42 credits from the following:

- Courses Constituting the Field of Linguistics

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 30 credits from the following:

- Core: 27 units Linguistics 201, 301, 303, 319, 341, 353, 401, 403, 407
- Experiential Course: 3 units from: Linguistics 316, 416, 441, 453, 467, 505, 571

#### Major-Field - Required Options

- Linguistics Options: 12 units from Courses Constituting the Field of Linguistics including at least 6 units at the 300-level or above.

Earn at least 12 credits from the following:

- Courses Constituting the Field of Linguistics

Other Requirements

Earn at least 9 credits from the following:

- Language: At least 6 units from courses in languages other than English including the following courses on programming languages: Computer Science 217, 219, 231, 233
- Methods: At least 3 units from the following list of formal-methods courses: Linguistics 560, Philosophy 279, 377, Psychology 300, Sociology 311, Statistics 213

**Note:** In special circumstances, the Undergraduate Advisor may approve the following substitute methods courses: Anthropology 411, Political Science 399 or Sociology 313.

Additional Comments:

## Concentrations in Linguistics

Type

Completion Requirement

Concentrations in Linguistics

Any student who has declared a Linguistics Major is also eligible to declare a **Concentration in Applied Linguistics** or a **Concentration in Speech-Language Sciences**.

**Applied Linguistics** is a wide-ranging field involving career paths in a variety of areas including Second Language Teaching, and Indigenous Studies.

**Speech-Language Sciences** provides an opportunity for students intending to pursue a career path in Speech-Language Pathology.

**Complete ANY of the following Requirement Sets:**

- Concentration in Applied Linguistics
- Concentration in Speech-Language Sciences

Additional Comments:

## Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

### Overlapping Programs

Programs in Linguistics cannot be taken in conjunction with the program in Linguistics and Language. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

A Linguistics BA with a Concentration in Speech-Language Sciences may not be combined with the Minor in Speech-Language Sciences.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

Linguistics programs educate students in the scientific study of language. Linguistic analysis and theory (syntax, morphology, semantics, phonology, phonetics, historical linguistics) constitute the core, which is enriched by the focal areas of language acquisition and processing and the analysis of Indigenous languages of Canada. Students in Linguistics can pursue a concentration in Applied Linguistics or Speech-Language Sciences.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Linguistics Program must meet the criteria listed in section **A.5 Undergraduate Degree Admission Requirements** of this Calendar.

## Admission to Honours in French, Language and Culture, Linguistics and Spanish

The Faculty of Arts procedures for Admission to Honours established in section **3.3.2 Honours Degrees** are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

In addition, for students applying to the Honours Program in Linguistics only, the following is also required:

- Completion of at least 72 units at the time of application.

- Consultation with a potential Honours Supervisor, to be approved by the Undergraduate Advisor in Linguistics. Please see the website for additional details.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Linguistics

##### Type

Completion Requirement

Students must successfully complete a minimum of 51 units to a maximum of 72 units in Courses Constituting the Field of Linguistics while fulfilling the Program Requirements.

##### Earn at least 51 credits from the following:

- Courses Constituting the Field of Linguistics

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 36 credits from the following:

- Core: 27 units Linguistics 201, 301, 303, 319, 341, 353, 401, 403, 407
- Capstone: 6 units Linguistics 598
- Experiential Course: 3 units from: Linguistics 316, 416, 441, 453, 467, 505, 571

#### Major-Field - Required Options

- **Linguistics Options:** At least 18 units from Courses Constituting the Field of Linguistics including at least 9 units at the 300-level or above.

##### Earn at least 18 credits from the following:

- Courses Constituting the Field of Linguistics
- **Advanced Linguistics:** Of the courses used to fulfill the Linguistics Options and Experiential courses (above):
  1. at least 9 units must be at the 400 level or above, and
  2. at least 3 units must be at the 500 level or above.

## Other Requirements

### Earn at least undefined credits from the following:

- **Language:** At least 6 units from courses in languages other than English including the following courses on programming languages: Computer Science 217, 219, 231, 233
- **Methods:** At least 3 units from the following list of formal-methods courses: Linguistics 560, Philosophy 279, 377, Psychology 300, Sociology 311, Statistics 213
- **Supporting Courses:** 9 units, with 3 units from each of the following three disciplines: Anthropology, Philosophy and Psychology.

**Note:** In special circumstances, the Undergraduate Advisor may approve the following substitute methods courses: Anthropology 411, Political Science 399 or Sociology 313.

## Additional Comments:

## Concentrations in Linguistics

### Type

### Completion Requirement

#### Concentrations in Linguistics

Any student who has declared a Linguistics Major is also eligible to declare a **Concentration in Applied Linguistics** or a **Concentration in Speech-Language Sciences**.

**Applied Linguistics** is a wide-ranging field involving career paths in a variety of areas including Second Language Teaching, and Indigenous Studies.

**Speech-Language Sciences** provides an opportunity for students intending to pursue a career path in Speech-Language Pathology.

### Complete ANY of the following Requirement Sets:

- Concentration in Applied Linguistics
- Concentration in Speech-Language Sciences

## Additional Comments:

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

### Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

## Overlapping Programs

Programs in Linguistics cannot be taken in conjunction with the program in Linguistics and Language. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

A Linguistics BA with a Concentration in Speech-Language Sciences may not be combined with the Minor in Speech-Language Sciences.

## Additional Comments:

## Overview

### General Program Information

The Linguistics Graduate Program is offered through the School of Languages, Linguistics, Literatures and Cultures.

The norm is full-time study, but part-time study may also be arranged. Full-time study is defined as in the Graduate Calendar (see **Student Status**) and is not compatible with full-time employment. Status of students with part-time employment will be determined on a case-by-case basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/graduate/degree-programs/linguistics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/linguistics-master-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/linguistics-master-arts-thesis-based).

In addition to Faculties of Graduate Studies and Arts **requirements**, the Program requires:

- a) Significant undergraduate training in linguistics, normally including at least one course in syntax and one course in phonology.
- b) A statement of purpose specifying the applicant's research interests and reasons for wishing to pursue a Master of Arts degree at the University of Calgary.
- c) A sample of previous work in linguistics or a related field (e.g., an Honours undergraduate thesis, or a course paper).
- d) Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculties of Graduate Studies and Arts requirements, the Linguistics Graduate Program requires:

- a) Two formal presentations relating to the student's thesis research. The first presentation must take place no later than the end of the second semester, and the second presentation no later than the end of the third semester. Continuation in program is dependent upon these presentations being judged acceptable by the faculty members of the Linguistics program in attendance. A student will have one opportunity to redo each presentation that is judged unacceptable.

b) A minimum of 18 units, including [LING611 Advanced Syntactic Analysis](#), [LING613 Adv Phonological Analysis](#), and [LING697 Thesis Research Development](#).

c) [LING600 Intro Grad Studies Linguistics](#).

d) Knowledge of a language other than English demonstrated to the satisfaction of the Graduate Studies Committee. The following groups will be judged on acceptance to the program to have met the MA language requirement:

- Students whose mother tongue is not English and who were required to satisfy the English language proficiency requirements for admission to program.
- Students whose mother tongue is English and who provide evidence of past schooling in another language (e.g., schooling in an immersion program in French, German or a First Nations language).
- Students whose mother tongue is English and who provide evidence of having completed a foreign language secondary school credit such as Spanish Language Arts 30, or French Language Arts 31.
- Students whose mother tongue is English and who provide evidence of at least A1 ("Basic User") level of proficiency in another language in the Common European Frame of Reference from a certified testing agency or a recognised academic institution (e.g., university or college) or a recognised language teaching organization.

Students whose mother tongue is English and who cannot provide evidence of prior exposure to another language on admission can meet the MA language requirement during their MA program in the following ways:

- by providing evidence of having received credit for 3 units for a University of Calgary language course, e.g., Chinese 205, French 209, German 202, Japanese 205, Russian 201.
- by providing evidence of having received credit for one of the following courses: Indigenous Languages 205, Indigenous Languages 301, Linguistics 551 or [LING605 Field Methods](#).

It is the responsibility of the student to provide relevant documentation that the MA language requirement has been met. It is strongly recommended that this program requirement be met within the first 16 months of program. It is the responsibility of the supervisor to ensure that the student meets the deadline for completing this requirement.

## Copyediting

Copyediting of the examination version of the thesis is not permitted. Students may make use of a copyeditor or copyediting service for the final version only of the thesis. The name of the copyeditor or copyediting service must appear on the Acknowledgements page.

Acknowledgement is required whether the copyediting was done by a paid professional or by an acquaintance, friend or family member. Fees for copyediting must be assumed by the student.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

The Linguistics program in the School of Languages, Linguistics, Literatures and Cultures will permit the Flexible Grade Option (CG Grade) for any course offered by the Linguistics program, with the exception of Linguistics 611, 613, 631.03, 651 and 697.

Students may also choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

At the master's level, with the approval of the Graduate Program Director and the School Director, a student may take for credit a maximum of 6 units at the undergraduate level. Normally, only 500-level courses are approved as acceptable, and students must provide evidence that such courses represent a necessary contribution to their program.

### Time Limit

Expected completion time is two years for a master's degree. Maximum completion time is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

A student is assigned a supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and program capacity. This faculty member commits to supervising the student's thesis and to advising and mentoring the student. Since research interests can change while in program, students are free to select a different supervisor after admission to program but will normally finalize supervisory arrangements by the end of the second term of study (usually April) and must finalize supervisory arrangements by the end of the second annual registration. When a student wishes to change supervisor, that choice must be made by mutual agreement between the student and the faculty member concerned, in consultation with the Graduate Program Director.

### Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance is normally available to qualified students. Funding is provided to full-time students only. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Information on teaching and research assistantships is available on the School of Languages, Linguistics, Literatures and Cultures graduate programs [website](#).

## Overview

### General Program Information

The Linguistics Graduate Program is offered through the School of Languages, Linguistics, Literatures and Cultures.

The norm is full-time study, but part-time study may also be arranged. Full-time study is defined as in the Graduate Calendar (see [Student Status](#)) and is not compatible with full-time employment. Status of students with part-time employment will be determined on a case-by-case basis.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: <https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/graduate/degree-programs/linguistics>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/linguistics-doctor-philosophy-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/linguistics-doctor-philosophy-thesis-based)

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Linguistic program requires:

- A Master's degree in linguistics, or a Master's degree in a related field with significant training in linguistics at the graduate level, normally including at least one graduate course in syntax and one graduate course in phonology, with a minimum grade point average of 3.40 on a four-point scale.
- A statement of purpose specifying the applicant's research interests and reasons for wishing to pursue a doctoral degree at the University of Calgary.
- A sample of previous work in linguistics or a related field (e.g., a seminar paper or Master of Arts thesis).
- Three reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Linguistics Graduate Program requires:

- Completion of 18 units in Linguistics beyond the MA, including [LING611 Advanced Syntactic Analysis](#) and [LING613 Adv Phonological Analysis](#). Course requirements are normally completed during the first two years.

Note: No more than 6 units can be taken with the same instructor.

- [LING600 Intro Grad Studies Linguistics](#).

- Knowledge of a language other than English demonstrated to the satisfaction of the Graduate Studies Committee. The following groups will be judged on acceptance to the program to have met the PhD language requirement:

- Students whose mother tongue is not English and who were required to satisfy the English language proficiency requirements for admission to program.
- Students whose mother tongue is English and who provide evidence of past schooling in another language (e.g., schooling in an immersion program in French, German or a First Nations language).
- Students whose mother tongue is English and who provide evidence of having completed a foreign language secondary school credit such as Spanish Language Arts 30, or French Language Arts 31.
- Students whose mother tongue is English and who provide evidence of at least A1 ("Basic User") level of proficiency in another language in the Common European Frame of Reference from a certified testing agency or a recognised academic institution (e.g., university or college) or a recognised language teaching organization.

Students whose mother tongue is English and who cannot provide evidence of prior exposure to another language on admission can meet the doctoral language requirement during their PhD program in the following ways:

- by providing evidence of having received credit for 3 units for a University of Calgary language course, e.g. Chinese 205, French 209, German 202, or Japanese 205, or Russian 201.
- by providing evidence of having received credit for one of the following courses: Indigenous Languages 205, Indigenous Languages 301, Linguistics 551 or **LING605 Field Methods**.

It is the responsibility of the student to provide relevant documentation that the doctoral language requirement has been met. This program requirement must be met by the time the thesis proposal is submitted. It is the responsibility of the supervisor to ensure that the student meets the deadline for completing this requirement.

### Copyediting

Copyediting of the examination version of the thesis is not permitted. Students may make use of a copyeditor or copyediting service for the final version only of the thesis. The name of the copyeditor or copyediting service must appear on the Acknowledgements page.

Acknowledgement is required whether the copyediting was done by a paid professional or by an acquaintance, friend or family member. Fees for copyediting must be assumed by the student.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

The Linguistics program in the School of Languages, Linguistics, Literatures and Cultures will permit the Flexible Grade Option (CG Grade) for any course offered by the Linguistics program, with the exception of Linguistics 611, 613, 631.03, 651 and 697.

Students may also choose the CG grade for a course taken extra to load.

The use of the CG grade will not affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

At the doctoral level, with the approval of the Graduate Program Director and the School Director, a student may take for credit a maximum of 6 units at the undergraduate level. Normally, only 500-level courses are approved as acceptable, and students must provide evidence that such courses represent a necessary contribution to their program.

### Time Limit

Expected completion time is four years for a doctoral degree. Maximum completion time is six years.

#### Supervisory Assignments and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

A student is assigned a supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and program capacity. This faculty member commits to supervising the student's thesis and to advising and mentoring the student. Since research interests can change while in program, students are free to

select a different supervisor after admission to program but will normally finalize supervisory arrangements by the end of the second term of study (usually April) and must finalize supervisory arrangements by the end of the second annual registration. When a student wishes to change supervisor, that choice must be made by mutual agreement between the student and the faculty member concerned, in consultation with the Graduate Program Director.

Once doctoral students have finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and two other faculty members from the program. One of the two members of this committee may be external to the program. It is desirable to have at least one committee member with supervisory experience at the doctoral level.

See [Supervision](#) for more information.

## Required Examinations

### Candidacy

To be admitted to candidacy, doctoral students must successfully complete an oral and written field of study examination and an oral examination on the thesis proposal. Doctoral students are required to take the field of study Examination after completion of all course work, normally within 26 months of first registration. Students must complete and submit a written thesis proposal to their Supervisory Committee within two months of passing the Field of Study examination.

See [Linguistics Candidacy Requirements](#) for more information.

### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the Program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance is normally available to qualified students. Funding is provided to full-time students only. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar.

Information on teaching and research assistantships is available on the School of Languages, Linguistics, Literatures and Cultures graduate programs [website](#).

## Overview

### General Program Information

The MA degree may be taken on a full-time or a part-time basis.

### Specializations:

- French
- Spanish

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [slllc.ucalgary.ca](http://slllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-course-based](https://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-course-based)

In addition to the [admission requirements](#) of the Faculties of Graduate Studies and Arts, the Department requires:

- a) A sufficiently high level of oral and written competence in the target language (a recommended minimum of CEFR level B2, ACTFL Intermediate-High, or equivalent. For CEFR standards, see: [coe.int/lang-CEFR](https://coe.int/lang-CEFR). For ACTFL standards, see: [actfl.org/publications/all](https://actfl.org/publications/all).
- b) An adequate academic background in one of the fields of Modern Languages, Linguistics, Literary, Film or Cultural Studies or other closely related field.
- c) An academic writing sample (of approximately 8-15 pages): a term paper, research paper or other writing, which the applicant considers representative of their best work.
- d) A Statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this program.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

- a) Thirty units, including [LLAC600 Intro Graduate Studies in LLAC](#), [LLAC601 Additional Language Pedagogy](#), and, depending on research perspective, either [LLAC602 Res Methods in Applied Ling](#) or [LLAC603 Thr'y Mthd's Lit Cltr'l Study](#).
- b) A written essay (of approximately 20 pages), to form the basis for the Capstone Examination.

Applicants lacking the requisite background in language or literature may be admitted as qualifying students. In this case, extra course work is normally required. A qualifying oral examination based on set texts may be required before the students attain regular Master of Arts status. Courses taken as a qualifying student do not normally count as part of the student's course requirements.

##### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

Note: Normally no more than 3 units of Directed Reading may be taken for credit.

- a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.
- b) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:

- [LANG615 2nd Lang Learning & Technology](#)
- [LANG625 2nd Lang Learn Cult Understand](#)
- [LANG699 Res Sem in 2nd Lang Learning](#)
- [EDER613 Change&InnovationInEducation](#)
- [EDER667 2nd Language Reading & Writing](#)

- [EDER669 Aspect of Secd Lang & Culture](#)
- [EDER696 Special Topics in Education](#)
- DELE/DELF/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

c) MA students in French and Spanish have a knowledge areas requirement that must be satisfied by the first month of the second year in program, or, as appropriate, one month after the completion of course work, whichever occurs first. MA students in French are expected to complete coursework that fulfills five knowledge areas, and MA students in Spanish are expected to complete coursework on all of the knowledge areas.

#### **Knowledge areas: French**

Medieval and Early Modern French Literature and Culture, Modern French Literature and Culture, Contemporary Literature and Culture of France, Franco-Canadian and Québécois Literature and Culture, Francophone Studies (outside Canada), History or Theories of Language, Theories of Culture or Literature.

#### **Knowledge areas: Spanish**

Medieval and early Modern Spanish Literature and Culture, Spanish American Literature and Culture to 1900, Modern and Contemporary Peninsular Literature and Culture, Latin American Literature and Culture since 1900, History or Theories of Language, Theories of Culture or Literature.

When studying an application for admission, the Graduate Program Director, in consultation with the Graduate Committee, will determine, based on undergraduate transcripts, which of the required knowledge areas have not yet been satisfied. Where the appropriateness of a course to fulfill a knowledge area is in doubt, a syllabus and/or a course description will be requested from the applicant. Upon admission, students will be advised of any specific course or other work needed to fulfill this requirement. Unfulfilled knowledge areas may be accomplished by either completing a graduate course in the area, which will form part of the course requirements (or may be in addition to them), or by completing specific readings under the supervision of an area specialist followed by demonstration of good knowledge of the specific area. This will be in the form of a paper written in response to a specific question, followed by an evaluation of the paper and an oral exam with the area specialist and another member of the School.

d) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

#### **Flexible Grade Option (CG Grade)**

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### **Credit for Undergraduate Courses**

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

## Time Limit

Expected completion time for full-time students in a course-based MA program is two years. Maximum completion time is six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

The Graduate Program Director is normally the interim supervisor for newly admitted students. Students are expected to choose a permanent supervisor by the end of the second regular academic session after first registration (April 30 for September registrants and December 15 for January registrants). Selection of a supervisor should be by mutual agreement between the student and the staff member concerned, approved by the Graduate Program Director, and is based on the stated research interests of the students, the disciplinary expertise of faculty members and program capacity.

## Capstone Examination

The course-based programs require a capstone comprehensive examination with a written and an oral component, taken after the completion of all course work and any other requirement such as the knowledge areas requirement. Students are required, as early as possible and, in any case, at least before registering for a final semester, to file the reading list on their chosen area of specialization with the program's Graduate Committee. The list should be drafted after consultation with the student's supervisor and approved by that faculty member.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

For information on other funding opportunities, see the [Awards and Financial Assistance](#) section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

The MA degree may be taken on a full-time or a part-time basis.

### Specializations:

- Applied Linguistics
- French
- German
- Spanish
- Transcultural Studies

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [slllc.ucalgary.ca](http://slllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-thesis-based](https://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-master-arts-thesis-based)

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) A sufficiently high level of oral and written competence in the target language (a recommended minimum of CEFR level B2, ACTFL Intermediate-High, or equivalent. For CEFR standards, see: [coe.int/lang-CEFR](https://coe.int/lang-CEFR). For ACTFL standards, see: [actfl.org/publications/all](https://actfl.org/publications/all).
- b) An adequate academic background in one of the fields of Modern Languages, Linguistics, Literary, Film or Cultural Studies or other closely related field.
- c) An academic writing sample (of approximately 8-15 pages): a term paper, research paper or other writing, which the applicant considers representative of their best work.
- d) A Statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this program.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the program requires:

- a) Eighteen units, including Languages, Literatures and Cultures 600, 601 and, depending on research perspective, either Languages, Literatures and Cultures 602 or 603.
- b) A scholarly and/or critical thesis (approximately 100 pages).

Applicants lacking the requisite background in language or literature may be admitted as qualifying students. In this case, extra course work is normally required. A qualifying oral examination based on set texts may be required before the students attain regular Master of Arts status. Courses taken as a qualifying student do not normally count as part of the student's course requirements.

##### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

Note: Normally no more than 3 units of Directed Reading may be taken for credit.

- a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.
- b) Before the end of their second year of study, MA Thesis students are required to make an internal or external presentation relating to their research.
- c) Students in the thesis-based programs are also expected to demonstrate their participation in university-wide research activities by attending internal or external scholarly presentations every year in their programs. A minimum of one workshop on language training (see section (d) below) and at least two other presentations are required. Students should list all presentations attended in their Annual Progress Report.

d) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:

- [LANG615 2nd Lang Learning & Technology](#)
- [LANG625 2nd Lang Learn Cult Understand](#)
- [LANG699 Res Sem in 2nd Lang Learning](#)
- [EDER613 Change&InnovationInEducation](#)
- [EDER667 2nd Language Reading & Writing](#)
- [EDER669 Aspect of Secd Lang & Culture](#)
- [EDER696 Special Topics in Education](#)
- DELE/DELF/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

e) MA students in French and Spanish have a knowledge areas requirement that must be satisfied by the first month of the second year in program, or, as appropriate, one month after the completion of course work, whichever occurs first. MA students in French are expected to complete coursework that fulfills five knowledge areas, and MA students in Spanish are expected to complete coursework on all of the knowledge areas.

#### **Knowledge areas: French**

Medieval and Early Modern French Literature and Culture, Modern French Literature and Culture, Contemporary Literature and Culture of France, Franco-Canadian and Québécois Literature and Culture, Francophone Studies (outside Canada), History or Theories of Language, Theories of Culture or Literature.

#### **Knowledge areas: Spanish**

Medieval and early Modern Spanish Literature and Culture, Spanish American Literature and Culture to 1900, Modern and Contemporary Peninsular Literature and Culture, Latin American Literature and Culture since 1900, History or Theories of Language, Theories of Culture or Literature.

When studying an application for admission, the Graduate Program Director, in consultation with the Graduate Committee, will determine, based on undergraduate transcripts, which of the required knowledge areas have not yet been satisfied. Where the appropriateness of a course to fulfill a knowledge area is in doubt, a syllabus and/or a course description will be requested from the applicant. Upon admission, students will be advised of any specific course or other work needed to fulfill this requirement. Unfulfilled knowledge areas may be accomplished by either completing a graduate course in the area, which will form part of the course requirements (or may be in addition to them), or by completing specific readings under the supervision of an area specialist followed by demonstration of good knowledge of the specific area. This will be in the form of a paper written in response to a specific question, followed by an evaluation of the paper and an oral exam with the area specialist and another member of the School.

f) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

#### **Additional Program Information**

##### **Type**

Completion Requirement

##### **Additional Comments:**

#### **Advanced Credit**

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

#### **Flexible Grade Option (CG Grade)**

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

## Time Limit

Expected completion time for full-time students in a master's thesis MA program is two years. Maximum completion time is four years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

The Graduate Program Director is normally the interim supervisor for newly admitted students. Students are expected to choose a permanent supervisor by the end of the second regular academic session after first registration (April 30 for September registrants and December 15 for January registrants). Selection of a supervisor should be by mutual agreement between the student and the staff member concerned, approved by the Graduate Program Director, and is based on the stated research interests of the students, the disciplinary expertise of faculty members and program capacity.

### Research Proposal

Thesis students are required to submit a written thesis proposal thirteen months after initial registration (for September registrants: 1st draft to the supervisor is due by September 1 and the thesis proposal to the Graduate Committee is due by September 30; for January registrants: 1st draft to the supervisor is due by January 2 and the thesis proposal to the Graduate Committee is due by February 1). This proposal should be approximately 1200 words in length and be accompanied by an abstract and an appropriately detailed preliminary bibliography. It should be drafted after consultation with the student's supervisor and have their preliminary approval. These documents will be circulated to the program's Graduate Committee for approval. Abstracts of proposals may be reproduced for information purposes.

### Thesis Examinations

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department

by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. For information on other funding opportunities, see the **Awards and Financial Assistance** section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

### General Program Information

#### Specializations:

- Applied Linguistics
- French
- German\*
- Spanish
- Transcultural Studies

\*As part of the graduate program in German, students may participate in a one-semester exchange with Justus-Liebig-Universität Gießen.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [slllc.ucalgary.ca](http://slllc.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadline for the submission of complete applications are available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/languages-literatures-cultures-doctor-philosophy-thesis-based)

In addition to the **admission requirements** of the Faculties of Graduate Studies and Arts, the Department requires:

- a) A Master of Arts degree in one of LLAC's areas of specialization, or equivalent.
- b) A grade point average of 3.40 (based on a 4-point system) on the work of the last two years of study.
- c) A sufficiently high level of oral and written competence in the target language (CEFR level C1 or equivalent). For CEFR standards, see: [coe.int/lang-CEFR](http://coe.int/lang-CEFR).
- d) An adequate academic background in the discipline.
- e) A research proposal of approximately 2-3 pages.
- f) A sample of critical writing: MA thesis or research paper or other writing, which the applicant considers representative of their best work. Either the sample research paper or the research proposal must be submitted in the target language of study.
- g) A statement of intent: 250-word (minimum) statement of research interest including research topic and the reasons for wishing to pursue graduate work in this unit.
- h) Two reference letters.

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Course Requirements: Eighteen units beyond the MA. Courses must include [LLAC600 Intro Graduate Studies in LLAC](#), [LLAC601 Additional Language Pedagogy](#), and, depending on research perspective, either [LLAC602 Res Methods in Applied Ling](#) or [LLAC603 Thr'y Mthd's Lit Cltr'l Study](#), unless these courses were taken in the MA program.

b) A Third Language Requirement: All students must demonstrate, at a minimum, reading comprehension of a language other than English and the target language of the PhD program, at a level sufficient for the use and understanding of scholarly material. This language will normally be related to the student's thesis research. The language requirement is deemed to have been satisfied when the student has either:

(i) successfully completed a fourth semester language course;

(ii) successfully completed a language-proficiency examination designed specifically for graduate students by a relevant academic designated specialist. Such an examination tests the student's reading proficiency, by testing their understanding of a scholarly article;

or (iii) successfully completed a B1 Common European Framework of Reference (CEFR) examination, when available.

c) A thesis.

### Copyediting

The program prohibits copyediting of the students' theses written in French or Spanish for the MA or PhD degrees.

**Note:** Normally no more than 3 units of Directed Reading may be taken for credit.

a) All students are encouraged to attend University orientation sessions. Students enrolled in a Fall Block week course are encouraged to attend an orientation session at the earliest opportunity.

b) Students in the thesis-based programs are also expected to demonstrate their participation in university-wide research activities by attending internal or external scholarly presentations every year in their programs. A minimum of one workshop on language training (see section (d) below) and at least two other presentations are required. Students should list all presentations attended in their Annual Progress Report.

c) Our graduate students are expected to complete training that will enhance their profile as a Language Teacher. Beyond Languages, Literatures and Cultures 601, training may include further courses such as:

- [LANG615 2nd Lang Learning & Technology](#)
- [LANG625 2nd Lang Learn Cult Understand](#)
- [LANG699 Res Sem in 2nd Lang Learning](#)
- [EDER613 Change&InnovationInEducation](#)
- [EDER667 2nd Language Reading & Writing](#)
- [EDER669 Aspect of Secd Lang & Culture](#)
- [EDER696 Special Topics in Education](#)
- DELE/DELF/German CEFR examiner accreditation courses

These courses do not count towards degree requirements.

It is also highly recommended that students avail themselves of other training offered by the Taylor Institute for Teaching and Learning.

d) Graduate students must consult with the Graduate Program Director concerning course selection, leave of absence, course or program withdrawal.

## Additional Program Information

### Type

#### Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process, as set out in section [Advanced Credit](#).

### Flexible Grade Option (CG Grade)

The Languages, Literatures and Culture program in the School of Languages, Linguistics, Literatures and Cultures will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the Languages, Literatures and Culture Program.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Only in exceptional circumstances and where appropriate to a student's program may graduate credit be received for courses numbered 500-599. No more than 6 units can be at the 500 level.

### Time Limit

Expected completion time is four years for the Doctor of Philosophy. Maximum completion time is six years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

### Supervisory Assignments

A student is assigned an interim supervisor on admission to the program based on the stated research interests of the student, the disciplinary expertise of faculty members and Program capacity. Students will normally have a permanent supervisor by the end of the second term of study (usually April) and must finalize supervisory arrangements no later than twelve months after first registration.

Once the student has finalized the choice of a supervisor, a supervisory committee is struck. It will normally consist of the supervisor and two other faculty members from the program. One of the two members of this committee may be external to the program. See [Supervision](#) for more information.

### Research Proposal

Students must prepare a thesis proposal as part of candidacy requirements. Details can be found at [slllc.ucalgary.ca/graduate/graduate-program-llac](http://slllc.ucalgary.ca/graduate/graduate-program-llac).

### Required Examinations

#### Candidacy

Doctoral students are required to pass written and oral field of study examinations and an oral examination on the thesis proposal. Specific details of the examination format and other candidacy requirements can be found at [slllc.ucalgary.ca/graduate/graduate-program-llac](http://slllc.ucalgary.ca/graduate/graduate-program-llac).

#### Thesis Examination

In addition to the Faculty of Graduate Studies requirements for [Thesis Examinations](#), the program requires:

*Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's research, including a relevant written sample of the materials related to the thesis, before an examination can be scheduled.

*Composition of the Committee*

The Internal Examiner may be internal to the home program.

### **Financial Assistance**

#### **Type**

Completion Requirement

#### **Additional Comments:**

Funding is available to qualified thesis-based students in the form of scholarships, awards and/or teaching assistantships. Students applying for departmental funding for the following academic year must submit their applications to the Department by February 1. All students are strongly encouraged to seek external financial assistance throughout their program. For information on other funding opportunities, see the **Awards and Financial Assistance** section of this Calendar and the Faculty of Graduate Studies website: [grad.ucalgary.ca/awards](http://grad.ucalgary.ca/awards).

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirement

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

Additional Comments:

### Program Requirements

Type

Completion Requirement

Specified Courses - Minor Program

**Earn at least 30 credits from the following:**

- 21 units Psychology 200, 201, 300, 301, 352, 375, 467
- 3 units from Psychology 365 or 369
- 6 units from Psychology 451, 471, 479

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Language Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures Overview](#) page.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

#### Additional Comments:

#### Courses Constituting the Field of Russian

##### Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of Russian while fulfilling the Program Requirements.

#### Earn at least 30 credits from the following:

- Courses Constituting the Field of Russian

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Additional Comments:

Students must complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Russian including at least 18 units at the senior level.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Placement in Language Courses

Refer to the [School of Languages, Linguistics, Literatures and Cultures](#) Overview page.

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

### Faculty of Arts Requirement

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

Additional Comments:

### Courses Constituting the Field of Spanish

Type

Completion Requirement

Students must successfully complete a minimum of 30 units from Courses Constituting the Field of Spanish while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Spanish

Additional Comments:

### Program Requirements

Type

Completion Requirement

## Additional Comments:

Students must complete a minimum of 30 units to a maximum of 36 units in courses labelled Courses Constituting the Field of Spanish including at least 18 units at the senior level.

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

## Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA Spanish Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations.](#)

#### Additional Comments:

#### Courses Constituting the Field of Spanish

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Spanish while fulfilling the Program Requirements.

##### Earn at least 42 credits from the following:

- Courses Constituting the Field of Spanish

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 21 credits from the following:

- 12 units Spanish 201, 203, 301, 303
- 3 units from Spanish 321 or 323
- 6 units Spanish 405, 505

#### Major-Field - Required Options

##### Upper-Level Courses:

- 12 units from courses labelled Courses Constituting the Field of Spanish at the 400 level
- 9 units from Courses Constituting the Field of Spanish at the 500 level

##### Earn at least 21 credits from the following:

- Courses Constituting the Field of Spanish

#### Additional Comments:

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Concurrent BA (Spanish)/BEd

## Overlapping Programs

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

### Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/languages-linguistics-literatures-cultures](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The School of Languages, Linguistics, Literatures and Cultures offers programs that focus on Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish and the literatures and cultures associated with these languages, as well as programs in general linguistics. It also offers an interdisciplinary program in East Asian Studies.

The language programs challenge students to think critically about the relationship between language and culture, theories of language competency, cross-cultural awareness, including literature and film studies, and the socio-linguistic histories involved.

## Placement in Introductory Courses in German, Italian, Japanese, Russian, and Spanish

Students who register in introductory courses in German, Italian, Japanese, Russian, and Spanish are required to complete an online placement form to indicate whether they have taken a previous course in the language or lived in an environment where that language is spoken. The online placement form will be available to registered students via D2L up to a month before the first day of class. Students must be registered in the respective course in order to access the D2L site.

Students who indicate on the online placement form that they have taken a previous course in the language or lived in an environment where that language is spoken will be required to meet with the program's undergraduate advisor and will be informed of the appropriate course in which to register. Students who do not complete the online placement form, or who are

asked to consult with the advisor but fail to do so, will be removed from the course by the drop deadline.

## Study Abroad

The School of Languages, Linguistics, Literatures and Cultures encourages its students to take advantage of possibilities for studying off-campus, wherever one of its target languages is spoken. Detailed information on exchange programs and Study Abroad programs in Arabic, Chinese, French (in Quebec or elsewhere), German, Italian, Japanese, Russian, and Spanish is available from the School of Languages, Linguistics, Literatures and Cultures and/or University of Calgary International.

Students planning to study at another institution must obtain a letter of permission from their faculty. They are strongly advised to consult the School of Languages, Linguistics, Literatures and Cultures beforehand to discuss details concerning course selection and transfer of credit.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA Spanish Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar.

### Admission to Honours in French, Language and Culture, Linguistics and Spanish

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must apply through their **Student Centre** for a change of program to Honours by February 1.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Spanish

##### Type

Completion Requirement

Students must successfully complete a minimum of 54 units to a maximum of 72 units in Courses Constituting the Field of Spanish while fulfilling the Program Requirements.

Earn at least 54 credits from the following:

- Courses Constituting the Field of Spanish

Additional Comments:

## Program Requirements

### Type

Completion Requirement

Major-Field - Specified Courses

Earn at least 30 credits from the following:

- 12 units Spanish 201, 203, 301, 303
- 3 units from Spanish 321 or 323
- 6 units Spanish 405, 505
- 3 units from Spanish 504 or 508
- 6 units Spanish 598

Major-Field - Required Options

*Upper-Level Courses:*

- 15 units from Courses Constituting the Field of Spanish at the 400 level
- 9 units from Courses Constituting the Field of Spanish at the 500 level

Earn at least 24 credits from the following:

- Courses Constituting the Field of Spanish

Additional Comments:

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

## Overlapping Programs

Language programs (i.e., majors or minors) offered by the School of Languages, Linguistics, Literatures and Cultures can only be combined with the major program in Linguistics and Language if the language or languages in the former program differ from the chosen Language Option for the latter. This restriction applies to Major-plus-Minor combinations, Double Majors, Combined Degrees and Second Baccalaureate Degrees.

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

Additional Comments:

## Overview

### General Program Information

**Program office:** School of Languages, Linguistics, Literatures and Cultures, Social Sciences Building 1152

**Website:** [arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/undergraduate/chinese-language-teacher-training](https://arts.ucalgary.ca/languages-linguistics-literatures-cultures/future-students/undergraduate/chinese-language-teacher-training)

**Program Co-ordinator email:** [wcai@ucalgary.ca](mailto:wcai@ucalgary.ca)

For advising, students should consult with the certificate's Program Co-ordinator or a Program Advisor in the **Arts Students' Centre**.

An Embedded Certificate is a credential that is comprised of 12-24 units and is taken concurrently with an eligible degree program. Embedded certificates must be completed prior to graduation from a degree program and are noted on the parchment and transcript. While most embedded certificates are completed within the degree requirements, some may require additional time and courses in order to complete.

## Admissions

### Program Admissions Information

Language proficiency at the level of **Chinese 303** or higher is required. Students who have not completed **Chinese 303** will be evaluated using standard placement procedures for Chinese courses.

Students may apply for a change of program to enter the certificate program through their **Student Centre**. Any undergraduate student is eligible for admission to an Embedded Certificate, unless prohibited by their home faculty. Students are encouraged to discuss their interest in the certificate with the department/faculty offering the certificate prior to starting the certificate.

Students' overall academic progression in their degree program, including academic probation, will be subject to the rules and regulations of their home faculty, as set out in the Calendar.

## Program Details

### Simple Requisites

<b>Completion Requirement</b> <b>Type</b> Completion Requirement
<b>Complete ALL of the following Requirement Sets:</b> <ul style="list-style-type: none"><li>• Embedded Certificate Completion Requirement</li></ul>
<b>Additional Comments:</b>

<b>Program Requirements</b> <b>Type</b> Completion Requirement
Undergraduate students must successfully complete a minimum of 15 units from the courses below: <b>Earn at least 15 credits from the following:</b> <ul style="list-style-type: none"><li>• Core courses 12 units: Chinese 353, 411, 412 and 413.</li><li>• Elective courses 3 units from: Language 451, 500, 599, Education 430, or 435.</li></ul> <i>*Education 430 and 435 are restricted to students in the BEd program.</i>
The Field of Chinese Teacher Training consists of the following courses:

Earn at least 15 credits from the following:

- Field of Chinese Teacher Training

Additional Comments:

## Public Policy; School of Department

The School of Public Policy is Canada's leading policy school.

For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to <https://spp.ucalgary.ca/>

## Programs

### Overview

#### General Program Information

The JD/MPP program is normally restricted to full-time study. It allows students to obtain both degrees in a significantly shorter time frame than if they are taken separately.

Email address: <mailto:mpp@ucalgary.ca>

Web page URL: <https://spp.ucalgary.ca> and <https://law.ucalgary.ca/future-students/our-jd-programs/joint-jd-programs#jd-mpp>

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications: <http://www.ucalgary.ca/future-students/graduate/explore-programs/public-policy-master-public-policy-course-based>.

Students must meet the [admission](#) requirements for the Faculty of Graduate Studies and those for the JD and MPP programs. Please consult the JD Student Services Coordinator or the MPP Office for more information.

A separate application for the MPP and for the JD is required for the combined JD/MPP program. See [deadlines for each program](#).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the School of Public Policy requires that all students complete the following:

33 units consisting of:

a) Ten core courses:

**Complete ALL of the following Course Sets:**

- Core MPP Courses

b) A total of six units of electives. This can include [PPOL699 Topics in Public Policy](#) or other graduate-level coursework approved by the Graduate Program Director. The two elective courses should be related in such a way that they form a focus in an area of public policy.

**Additional Comments:**

### Combined JD/MPP

One three-unit [JD course](#) will be counted toward the MPP core requirements set out in (a) and one three-unit [JD course](#) will be counted toward the elective requirement set out in (b). All other requirements set out in (a)–(b) apply to students in the joint program.

Students will normally complete all of the first-year compulsory courses in Law in the first year of their program and all MPP courses including [PPOL620 Capstone Preparation](#) and [PPOL623 Capstone Project](#) (capstone) in year two. In their third year, they complete their [JD courses](#). Please consult the MPP or the JD Office for more information.

### Copyediting

The School of Public Policy does not allow copyediting on students' work.

#### Additional Program Information

**Type**

Completion Requirement

**Additional Comments:**

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma. If graduate-level courses are taken as post-BA courses and not used as credit towards another degree, the School may allow the student to claim up to 6 units at our graduate level towards the MPP requirements should the student be admitted into the MPP program.

### Flexible Grade Option (CG Grade)

Students admitted to the Master of Public Policy program will not be allowed to request the [Flexible Grade Option \(CG Grade\)](#) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will affect students' ability for internal awards.

### Credit for Undergraduate Courses

No credit will be given for courses taken below the 600-level, except in special cases.

### Time Limit

Maximum completion time for the MPP is four years.

#### Supervisory Assignments and Required Examinations

**Type**

Completion Requirement

**Additional Comments:**

## Supervisory Assignments

All MPP students in the program will be guided by faculty holding appointments to the School.

## Required Examinations

No additional examinations outside of the courses are required.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students admitted to the MPP program will automatically be considered for financial awards from the School. For information on awards, see the [website](#) for the School and the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The MBA/MPP program is normally restricted to full-time study. It allows students to obtain both degrees in a significantly shorter time frame than if they are taken separately.

Mathison Hall, Room 424

MBA Program: 403.220.2808

Fax: 403.220.0095

Email address: <mailto:mbarequest@haskayne.ucalgary.ca>

Web page URL: <https://haskayne.ucalgary.ca/future-students/mba-programs>

School of Public Policy, Downtown Campus

906 8th Avenue SW, 5th Floor

Calgary, Alberta T2P 1H9

Program number: 403.210.7109

Fax: 403.210.6939

Email address: <mailto:mpp@ucalgary.ca>

Web page URL: <https://spp.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications for the MPP program is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Deadline for the submission of completed applications for the MBA (course-based) program is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/management-master-business-administration-course-based>.

Students must meet the [admission](#) requirements for the Faculty of Graduate Studies and those for the [MBA and MPP programs](#). Please consult the MBA Admissions Officer or the MPP Office for more information.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

In addition to Faculty of Graduate Studies [requirements](#), the Haskayne School of Business and the School of Public Policy require:

Course requirements include:

a) MBA courses (51 units):

**Complete ALL of the following Course Sets:**

- MBA Courses (MBA/MPP combined)

plus:

- three elective courses (3 units each) in the student's area of interest.

b) MPP courses:

**Complete ALL of the following Course Sets:**

- Core MPP Courses

plus:

- A total of six units of electives. This can include [PPOL699 Topics in Public Policy](#) or other graduate-level coursework approved by the Graduate Program Director. The two elective courses should be related in such a way that they form a focus in an area of public policy.

#### Additional Comments:

For students enrolled in the MBA/MPP, one three-unit MBA course will be counted toward the MPP core requirements set out in (b) and one three-unit MBA course will be counted toward the elective requirement set out in (b). All other requirements set out in (a)-(b) apply to students in the joint program.

Students will normally focus on courses for the MBA during the first year and on MPP courses including [PPOL620 Capstone Preparation](#) and [PPOL623 Capstone Project](#) (capstone) in year two. Typically, the remaining courses will be completed in the first term of year three. Please consult the MBA or the MPP Office for more information.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma. If graduate-level courses are taken as post-BA courses and not used as credit towards another degree, the School may allow the student to claim up to 6 units at our graduate level towards the MPP requirements should the student be admitted into the MPP program.

### Flexible Grade Option (CG Grade)

Students admitted to the Master of Public Policy program will not be allowed to request the **Flexible Grade Option (CG Grade)** for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will affect students' ability for internal awards.

### Credit for Undergraduate Courses

No credit will be given for courses taken below the 600-level, except in special cases.

### Time Limit

Maximum completion time for the MPP is four years.

### Supervisory Assignments and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

All MPP students in the program will be guided by faculty holding appointments to the School.

### Required Examinations

No additional examinations outside of the courses are required.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

All admitted full-time MBA students will be automatically considered for Business scholarships.

## Overview

### General Program Information

The MPP is a full-time, 12-month professional degree program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Combined offerings include:

- **Combined M**
- **Combined J**

Location: School of Public Policy

# UCalgary

Downtown Campus

906 8th Avenue SW, 5th Floor

Calgary, Alberta T2P 1H9

Program number: 403.210.7109

Fax: 403.210.6939

Email address: <mailto:mpp@ucalgary.ca>

Web page URL: <https://spp.ucalgary.ca/>

## Admissions

### Program Admissions Information

Deadline for the submission of completed applications for the MPP program is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/public-policy-master-public-policy-course-based>.

In addition to the Faculty of Graduate Studies [admission requirements](#), the School requires:

- a) A minimum 3.30 grade point average (on the four-point scale) in the last two years of program or over the last 60 units.
- b) A current resume.
- c) A personal statement outlining the applicant's career goals and how the applied-for program would help achieve those goals.
- d) For students required to prove proficiency in English, a minimum TOEFL score of 105 (Internet-based test), or a minimum score of 7.5 on the IELTS, or a minimum score of 70 on the CAEL (with a minimum of 70 on each section). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the School of Public Policy requires that all students complete the following:

33 units consisting of:

a) Ten core courses:

**Complete ALL of the following Course Sets:**

- Core MPP Courses

b) A total of six units of electives. This can include [PPOL699 Topics in Public Policy](#) or other graduate-level coursework approved by the Graduate Program Director. The two elective courses should be related in such a way that they form a focus in an area of public policy.

#### Additional Comments:

##### Copyediting

The School of Public Policy does not allow copyediting on students' work.

#### Additional Program Information

##### Type

## Completion Requirement

### Additional Comments:

The School hosts a variety of Community Outreach events year-round that attract global policy experts and practitioners. As a feature of the MPP program, The School also puts on a Speaker Series specifically for students in the program. These talks feature prominent policy figures in an interactive environment.

The School's event series represents a tremendous opportunity for students to network with policy experts from business and government. For this reason, students are expected to attend as many events as possible throughout the academic year.

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not normally be given for course work taken as part of another completed degree/diploma. If graduate-level courses are taken as post-BA courses and not used as credit towards another degree, the School may allow the student to claim up to 6 units at our graduate level towards the MPP requirements should the student be admitted into the MPP program.

## Flexible Grade Option (CG Grade)

Students admitted to the Master of Public Policy program will not be allowed to request the Flexible Grade Option (CG Grade) for any course that is applicable to their degree; or apply any course awarded a grade of CG towards their graduation requirements.

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will affect students' ability for internal awards.

## Credit for Undergraduate Courses

No credit will be given for courses taken below the 600-level, except in special cases.

## Time Limit

Maximum completion time for the MPP is four years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

All MPP students in the program will be guided by faculty holding appointments to the School.

## Required Examinations

No additional examinations outside of the courses are required.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Students admitted to the MPP program will automatically be considered for financial awards from the School. For information on awards, see the website for the School and the Awards and Financial Assistance section of this Calendar.

## Overview

### General Program Information

The MSc degree in Sustainable Energy Development (SEDV) is an interdisciplinary offering by the School of Public Policy in collaboration with the Haskayne School of Business, Schulich School of Engineering, School of Architecture, Planning, and Landscape, and the Faculty of Law. This interdisciplinary, comprehensive, and professional graduate program provides a holistic approach to energy and environmental management through a cross section of courses taught by faculty from across the university.

This is a continuous program with no scheduled break. Students who do not enrol in courses continuously will be withdrawn from the program for failure to register unless they are on an approved leave of absence.

Location: Downtown Campus

Program number: 403.220.2013

Email address: <mailto:sedv@ucalgary.ca>

Web page URL: <http://www.ucalgary.ca/sustainableenergy>

## Admissions

### Program Admissions Information

Deadlines for submission of complete applications are available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/sustainable-energy-development-master-science-course-based>.

In addition to Faculty of Graduate Studies [admission requirements](#), the SEDV Program requires:

- Letter of intent of no more than 1000 words, addressing four questions provided on the SEDV admissions [website](#). Each question must be answered in no more than 250 words.
- A current curriculum vitae.
- Two years of professional work experience after graduation.
- Two reference letters: one academic and one professional.

Please refer to our [website](#) for detailed instructions and templates.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), SEDV requires successful completion of 42 units consisting of the following:

33 units of core courses:

##### Complete ALL of the following Courses:

- SEDV601 - Energy Systems I  
**AND** SEDV603 - Energy Systems II  
**AND** SEDV605 - Indigenous Peoples and Sustainability in Energy Development  
**AND** SEDV613 - Energy Economics and Finance  
**AND** SEDV615 - Environmental Impact Assessment in the Energy Sector  
**AND** SEDV619 - Environmental Law in the Energy Sector

**AND SEDV621** - Environmental Management Tools in the Energy Sector  
**AND SEDV623** - Strategic Environmental Planning for Energy Organizations  
**AND SEDV631** - Life Cycle Sustainability Assessment in the Energy Sector  
**AND SEDV633** - Energy and Climate Policy  
**AND SEDV635** - Fundamentals of Water, Air, and Land Pollution

6 units chosen from:

**Complete ANY of the following Courses:**

- SEDV698 - Topics in Energy and the Environment I  
**AND SEDV699** - Topics in Energy and the Environment II

3 unit capstone project:

**Complete ALL of the following Courses:**

- SEDV640 - Capstone Project I: Research Design  
**AND SEDV641** - Capstone Project II: Proposal Development  
**AND SEDV642** - Capstone Project III: Research Exploration and Examination

The work completed in this set of courses is considered equivalent to a Major Research Project. These courses must be taken immediately after each other. The project work must be interdisciplinary, reflecting a minimum of 3 areas of study, with energy and environment as the two anchors.

**Additional Comments:**

Students will have the opportunity to participate in professional development seminars, experiential learning workshops, and field trips to local energy related sites. Attendance and participation in such activities is expected.

**Additional Program Information**

**Type**

Completion Requirement

**Additional Comments:**

**Advanced Credit**

The SEDV Program does not grant advanced credit for courses completed prior to admission.

**Flexible Grade Option (CG Grade)**

The Master of Science in Sustainable Energy Development program will allow students to pursue the Flexible Grade Option (CG Grade).

Students may not choose the CG grade in a course taken extra-to-load.

The use of the CG grade will not affect students' ability for internal awards.

**Credit for Undergraduate Courses**

The SEDV program does not grant advanced credit for undergraduate courses.

**Time Limit**

The SEDV program commences annually in May, which is the only intake. As a cohort-based program, the expectation is for students to complete courses as timetabled for their cohort.

The expected completion time is 16 months for full-time studies; however, the maximum permitted time is 6 years.

#### Financial Assistance

##### Type

Completion Requirement

##### Additional Comments:

For information on graduate funding, please see [Financing - SEDV | Haskayne School of Business | University of Calgary](#).

## Sociology; Department of Department

The Department of Sociology is part of the Faculty of Arts.

For more information concerning undergraduate program regulations and requirements, refer to the [Faculty of Arts](#). For information on graduate program regulations and requirements, refer to individual [graduate programs](#). Faculty of Graduate Studies Academic Regulations can be found [here](#).

For contact information or current events, refer to the [Department of Sociology](#).

## Programs

### Overview

General Program Information

### Contact Information

Website: [arts.ucalgary.ca/sociology](https://arts.ucalgary.ca/sociology).

### For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The program in Law and Society is designed to provide a broad exposure to the nature of law and its role in society. The overall aim of the program is not only to provide students with a deep understanding of the law but also to demonstrate that the law is not an isolated discipline but is a part of an integrated culture of which we all partake. The program is not specifically a "pre-law" program. Nevertheless, the perspectives that it offers are likely to be of great benefit to those who hope to be lawyers, as well as to those considering a career in politics, the civil service, law enforcement, the social sciences, business and industry, or public-interest advocacy.

## Admissions

### Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

## Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Minor Programs

**Additional Comments:**

## Courses Constituting the Field of Law and Society

**Type**

Completion Requirement

### Courses Constituting the Field of Law and Society

Students must successfully complete a minimum of 30 units to a maximum of 36 units from Courses Constituting the Field of Law and Society with at least 18 units at the 300 level or above, while fulfilling the Program Requirements.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Law and Society

**Additional Comments:**

## Program Requirements

**Type**

Completion Requirement

### Specified Courses - Minor Program

**Earn at least 3 credits from the following:**

- 3 units Law and Society 201

### Required Options - Minor Program

- 9 additional units from courses labelled Law and Society (LWSO).
- An additional 18 units from the list of Courses with a Focus on Law and Society with no more than 6 units from courses in a single subject area.

**Earn at least 27 credits from the following:**

- Courses Constituting the Field of Law and Society
- All courses labelled Law and Society (LWSO)

*A maximum of 6 units of Law and Society 501 may count towards major requirements.*

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/sociology](https://arts.ucalgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their

overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The program in Law and Society is designed to provide a broad exposure to the nature of law and its role in society. The overall aim of the program is not only to provide students with a deep understanding of the law but also to demonstrate that the law is not an isolated discipline but is a part of an integrated culture of which we all partake. The program is not specifically a "pre-law" program. Nevertheless, the perspectives that it offers are likely to be of great benefit to those who hope to be lawyers, as well as to those considering a career in politics, the civil service, law enforcement, the social sciences, business and industry, or public-interest advocacy.

## Sociology and Law and Society Students Association

The Sociology and Law and Society Students Association (SLSA) is actively engaged in promoting the academic and social interests of students who Major or Minor in Sociology or Law and Society. The SLSA fosters a sense of community within the Department and represents the interests of undergraduate Sociology and Law and Society students at appropriate councils and committees. All Sociology and Law and Society students are encouraged to become members.

## Admissions

Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Sociology) Program or the BA (Law and Society) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

Simple Requisites

### Faculty of Arts Requirements

#### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

Additional Comments:

### Courses Constituting the Field of Law and Society

#### Type

Completion Requirement

Students must successfully complete a minimum of 48 units in Courses Constituting the Field of Law and Society while

fulfilling the Program Requirements.

**Earn at least 48 credits from the following:**

- Courses Constituting the Field of Law and Society

**Additional Comments:**

## Program Requirements

### Type

Completion Requirement

#### Major-Field Specified Courses

**Earn at least 24 credits from the following:**

- Core Courses: 21 units: Law and Society 201, 203, 335, 337, 413, 415, 591
- Core Courses: 3 units from Political Science 342, Philosophy 425 or Sociology 329

#### Major- Field Required Options

- *Courses with a Focus on Law and Society:* 15 units, selected from the list of Courses with a Focus on Law and Society within *Courses Constituting the Field of Law and Society*.
- *Context Courses:* 6 units selected from the list of Context Courses within *Courses Constituting the Field of Law and Society*.
- *Research Methods Requirement:* 3 units from the list of Research Methods Courses within *Courses Constituting the Field of Law and Society*

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Law and Society

**Additional Comments:**

*A maximum of 6 units of Law and Society 501 may count towards major requirements.*

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/sociology](https://arts.ucalgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

The program in Law and Society is designed to provide a broad exposure to the nature of law and its role in society. The overall aim of the program is not only to provide students with a deep understanding of the law but also to demonstrate that the law is not an isolated discipline but is a part of an integrated culture of which we all partake. The program is not specifically a "pre-law" program. Nevertheless, the perspectives that it offers are likely to be of great benefit to those who hope to be lawyers, as well as to those considering a career in politics, the civil service, law enforcement, the social sciences, business and industry, or public-interest advocacy.

## Sociology and Law and Society Students Association

The Sociology and Law and Society Students Association (SLSA) is actively engaged in promoting the academic and social interests of students who Major or Minor in Sociology or Law and Society. The SLSA fosters a sense of community within the Department and represents the interests of undergraduate Sociology and Law and Society students at appropriate councils and committees. All Sociology and Law and Society students are encouraged to become members.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Sociology) Program or the BA (Law and Society) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must submit a change of program request through their [Student Centre](#) by February 1.

In addition, for admission to the Honours program in Law and Society, the following is also required:

1. Completion of at least 72 units at the time of application.
2. Completion of 3 units from Communication Studies 313, Geography 483, History 300, Law and Society 313, Psychology 300, Psychology 301, or Sociology 313.
3. Consultation with three potential supervisors and submission of the Statement of Intent by January 15. Please see the website for additional details.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

##### Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

**Additional Comments:****Courses Constituting the Field of Law and Society****Type****Completion Requirement**

Students must successfully complete a minimum of 54 units in Courses Constituting the Field of Law and Society while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Law and Society

**Additional Comments:****Program Requirements****Type****Completion Requirement****Major-Field - Specified Courses****Earn at least 30 credits from the following:**

- Core Courses: 21 units: Law and Society 201, 203, 335, 337, 413, 415, 591
- Core Courses: 3 units from Political Science 342, Philosophy 425 or Sociology 329
- Honours Thesis and Seminar: 6 units Law and Society 590

**Major-Field - Required Options**

- *Courses with a Focus on Law and Society:* 15 units, selected from the list of Courses with a Focus on Law and Society within Courses Constituting the Field of Law and Society.
- *Context Courses:* 6 units selected from the list of Context Courses within Courses Constituting the Field of Law and Society.
- *Research Methods Requirement:* 3 units from the list of Research Methods Courses within Courses Constituting the Field of Law and Society.

**Earn at least 24 credits from the following:**

- Courses Constituting the Field of Law and Society

*A maximum of 6 units of Law and Society 501 may count towards major requirements.*

**Additional Comments:****Degree Options****Type****Completion Requirement****Degree Options**

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ALL of the following Requirement Sets:

- Faculty of Arts - Co-operative Education Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates

Additional Comments:

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/sociology](https://arts.ucalgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Sociology contributes to understanding our social world by studying how groups, organizations, societies, and their cultural products are produced, reproduced and transformed by the actions and interactions of people in social contexts. The Sociology program cultivates students' sociological imaginations by offering a wide range of opportunities to think sociologically and to use different theoretical approaches, research methods and data-analysis techniques so students gain experience thinking with and using a sociological perspective.

## Admissions

Program Admissions Information

Students declare a Minor by requesting a Change of Program through the [Student Centre](#). The completion of a Minor is recorded on the transcript.

## Program Details

Simple Requisites

Faculty of Arts Requirements

Type

Completion Requirement

Faculty of Arts Graduation Requirements

For Faculty of Arts Minor graduation requirements, refer to:

Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs

Additional Comments:

Courses Constituting the Field of Sociology

Type

## Completion Requirement

Students must successfully complete at least 30 units and not more than 36 units from Courses Constituting the Field of Sociology while fulfilling the Program Requirements

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Sociology

**Additional Comments:**

## Program Requirements

### Type

#### Completion Requirement

##### Minor Program Requirements

Students must successfully complete at least 30 units and not more than 36 units from Courses Constituting the Field of Sociology with at least 18 units at the 300 level or above.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Sociology

Note: Sociology 501 may be counted only twice towards the minor field requirements in Sociology.

**Additional Comments:**

## Overview

### General Program Information

## Contact Information

Website: [arts.ucalgary.ca/sociology](https://arts.ucalgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

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## Sociology and Law and Society Students Association

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## Admissions

## Admissions

### Program Admissions Information

## Admission to the Major

Prospective students wishing to enter the BA (Sociology) Program or the BA (Law and Society) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

## Program Details

### Simple Requisites

#### Faculty of Arts Requirement

##### Type

Completion Requirement

#### Faculty of Arts Requirement

For Faculty of Arts Major Degree requirements, or if completing this program as a Double Major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Major Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

#### Additional Comments:

#### Courses Constituting the Field of Sociology

##### Type

Completion Requirement

Students must successfully complete a minimum of 42 units to a maximum of 60 units in Courses Constituting the Field of Sociology while fulfilling the Program Requirements

##### Complete ALL of the following Requirement Sets:

- Courses Constituting the Field of Sociology

#### Additional Comments:

#### Program Requirements

##### Type

Completion Requirement

#### Major-Field - Specified Courses

##### Earn at least 18 credits from the following:

- Core: 18 units Sociology 201, 311, 313, 315, 331, 333.

#### Major-Field Required Options

- *Advanced-Level Sociology*: 12 units at the 400 level or above\*.
- *Sociology Options*: 12 additional units from Courses Constituting the Field of Sociology.

Earn at least 24 credits from the following:

- Courses Constituting the Field of Sociology

*\*Sociology 501 may be counted only twice towards the major field requirements in Sociology.*

**Additional Comments:**

## Concentrations - SUSPENDED

### Type

Completion Requirement

#### Concentrations

**Applications to the concentrations are currently suspended. No new admissions will be permitted.**

The BA in Sociology can be taken with a concentration in (a) Criminology, Deviance and Social Control; (b) Gender, Family and Work; (c) Social Inequalities and Social Justice.

**Complete ALL of the following Requirement Sets:**

- Criminology, Deviance and Social Control Concentration
- Gender, Family and Work
- Social Inequalities and Social Justice Concentration

**Additional Comments:**

## Degree Options

### Type

Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Co-operative Education Programs

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

**Additional Comments:**

## Overview

General Program Information

## Contact Information

Website: [arts.ucalgary.ca/sociology](https://arts.ucalgary.ca/sociology).

## For Program Advice

Students should consult an undergraduate program advisor in the Arts Students' Centre for information and advice on their overall program requirements. Advising contact information can be found online: [arts.ucalgary.ca/advising](https://arts.ucalgary.ca/advising).

## Introduction

Sociology contributes to understanding our social world by studying how groups, organizations, societies, and their cultural products are produced, reproduced and transformed by the actions and interactions of people in social contexts. The Sociology program cultivates students' sociological imaginations by offering a wide range of opportunities to think sociologically and to use different theoretical approaches, research methods and data-analysis techniques so students gain experience thinking with and using a sociological perspective.

## Sociology and Law and Society Students Association

The Sociology and Law and Society Students Association (SLSA) is actively engaged in promoting the academic and social interests of students who Major or Minor in Sociology or Law and Society. The SLSA fosters a sense of community within the Department and represents the interests of undergraduate Sociology and Law and Society students at appropriate councils and committees. All Sociology and Law and Society students are encouraged to become members.

## Admissions

### Program Admissions Information

### Admission to the Major

Prospective students wishing to enter the BA (Sociology) Program or the BA (Law and Society) Program must meet the criteria listed in section [A.5 Undergraduate Degree Admission Requirements](#) of this Calendar. Annual application deadlines are found in [A.3 Deadline Dates for Undergraduate Applications for Admission and Supporting Documents](#).

### Admission to Honours

The Faculty of Arts procedures for Admission to Honours established in section [3.3.2 Honours Degrees](#) are applicable and provide the overall framework. Students wishing to apply to an Honours program must submit a change of program request through their [Student Centre](#) by February 1.

In addition, for admission to the Honours program in Sociology, the following is also required:

1. Completion of at least 72 units at the time of application.
2. Completion of Sociology 311, 313, 315, 331 and 333.
3. Consultation with three potential supervisors and submission of the Statement of Intent by January 15. Please see the website for additional details.

## Program Details

### Simple Requisites

#### Faculty of Arts Requirements

##### Type

Completion Requirement

#### Faculty of Arts Graduation Requirements

For Faculty of Arts Honours Degree requirements, or if completing this program as a Double major, Combined Degree or Second Degree, refer to:

##### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Graduation Requirements - Honours Degree Programs
- Faculty of Arts - Combined Degrees
- Faculty of Arts - Degrees with a Double Major
- Faculty of Arts - Second Degrees (After Degrees)

For other regulations related to the Faculty of Arts, see: [3. Faculty of Arts Regulations](#).

**Additional Comments:**

**Courses Constituting the Field of Sociology**

**Type**

Completion Requirement

Students must successfully complete a minimum of 54 units to a maximum of 72 units in Courses Constituting the Field of Sociology while fulfilling the Program Requirements.

**Earn at least 54 credits from the following:**

- Courses Constituting the Field of Sociology

**Additional Comments:**

**Program Requirements**

**Type**

Completion Requirement

Major-Field - Specified Courses

**Earn at least 54 credits from the following:**

- Core: 18 units Sociology 201, 311, 313, 315, 331, 333.
- Honours Thesis: 6 units Sociology 590

Major-Field - Required Options

- *Advanced-Level Sociology*: 12 units at the 400 level or above\*.
- *Sociology Options*: 18 additional units from Courses Constituting the Field of Sociology.

**Earn at least 30 credits from the following:**

- Courses Constituting the Field of Sociology

*\*Sociology 501 may be counted only twice towards the major field requirements in Sociology.*

**Additional Comments:**

**Concentrations - SUSPENDED**

**Type**

Completion Requirement

Concentrations

**Applications to the concentrations are currently suspended. No new admissions will be permitted.**

The BA in Sociology can be taken with a concentration in (a) Criminology, Deviance and Social Control; (b) Gender, Family and Work; (c) Social Inequalities and Social Justice.

**Complete ANY of the following Requirement Sets:**

- Criminology, Deviance and Social Control Concentration
- Gender, Family and Work
- Social Inequalities and Social Justice Concentration

**Additional Comments:**

**Degree Options**

## Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

#### Complete ALL of the following Requirement Sets:

- Faculty of Arts - Minor Programs
- Embedded Certificates
- Faculty of Arts - Co-operative Education Programs
- Arts and Science Honours Academy

Note: The combination of an Arts degree with a BEd cannot be completed with Co-operative Education.

### Additional Comments:

## Overview

### General Program Information

The work completed in the course-based Master of Arts program is considered equivalent to a major research project and is appropriate for students who intend to proceed to doctoral studies.

The MA, course-based is a continuous program with no scheduled break.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-ma-course>.

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) Thesis-based program: a grade point average of 3.5 on a four-point scale over the last two years of coursework or 60 units.  
Course-based program: a grade point average of 3.3 on a four-point scale over the last two years of coursework or 60 units.
- b) Demonstrated competence, normally through course work, in classical and contemporary sociological theory, social research methods, and social statistics.
- c) A written statement of intent.
- d) A sample of written work. Possible writing samples include a term paper, a research report, a thesis chapter or an article. Writing samples cannot be co-authored and those with sociological content are preferred.
- e) Two reference letters.
- f) Students must hold a four-year degree from a recognized/accredited institution. If degree was received from a university outside of Canada, refer to the country-specific degree requirements: [grad.ucalgary.ca/prospective/admissions/international-admission-requirements](http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements).

### Program Details

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

27 units of courses including:

- a) Competence in sociological statistics, methods of sociological research, and sociological theory demonstrated by completing [SOCI611 Soc Stats:General Linear Model](#), [SOCI613 Sem Quantitative Res Methods](#), [SOCI615 SeminarInQualitativeResMethod](#) or an alternative methods course offered by the Sociology Department; and [SOCI631 Seminar in Sociological Theory](#).
- b) 9 units of electives at the 600 or 700 level; at least 6 units must consist of courses labelled SOCI.
- c) 3 units from [SOCI606 Master's Seminar Prof SOCI I](#) and [SOCI607 Master's Seminar Prof SOCI II](#) (1.5 units each).
- d) 6 units of [SOCI680 Major Research Project](#), a course (major research paper) taken in spring and summer terms.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to two 600-level Sociology courses (6 units).

### Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

### Time Limit

Expected completion time is 12 months for the course-based Master of Arts. Maximum completion time is four years.

#### Research Proposal Requirements

##### Type

Completion Requirement

##### Additional Comments:

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. Information on departmental funding is available in the online **Graduate Student Handbook**. For further information on awards, please see the **Awards and Financial Assistance** section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## Overview

### General Program Information

The MA (thesis-based) is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-ma-thesis>.

In addition to Faculties of Graduate Studies and Arts **requirements**, the Department requires:

- a) Thesis-based program: a grade point average of 3.5 on a four-point scale over the last two years of coursework or 60 units.  
Course-based program: a grade point average of 3.3 on a four-point scale over the last two years of coursework or 60 units.
- b) Demonstrated competence, normally through course work, in classical and contemporary sociological theory, social research methods, and social statistics.
- c) A written statement of intent.
- d) A sample of written work. Possible writing samples include a term paper, a research report, a thesis chapter or an article. Writing samples cannot be co-authored and those with sociological content are preferred.
- e) Two reference letters.
- f) Students must hold a four-year degree from a recognized/accredited institution. If degree was received from a university outside of Canada, refer to the country-specific degree requirements: [grad.ucalgary.ca/prospective/admissions/international-admission-requirements](http://grad.ucalgary.ca/prospective/admissions/international-admission-requirements).

## Program Details

### Simple Requisites

## Program/Course Requirements

### Type

Completion Requirement

### Additional Comments:

In addition to Faculties of Graduate Studies and Arts requirements, the Department requires:

18 units of courses including:

- a) Competence in sociological statistics, methods of sociological research, and sociological theory demonstrated by completing SOCI611 Soc Stats:General Linear Model; SOCI613 Sem Quantitative Res Methods, SOCI615 Seminar In Qualitative Res Method or an alternative methods course offered by the Sociology Department; and SOCI631 Seminar in Sociological Theory.
- b) 6 units of electives on substantive topics at the 600 or 700 level; at least 3 units of elective must be a Sociology Department offering.
- c) 3 units from SOCI606 Master's Seminar Prof SOCI I and SOCI607 Master's Seminar Prof SOCI II (1.5 units each) and successful preparation and completion of a thesis prospectus.
- d) Completion of the MA Thesis requirement.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

#### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to three 600- or 700-level courses (9 units).

#### Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the Flexible Grade Option (CG Grade) for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

#### Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

#### Time Limit

Expected completion time is 20 months for the thesis-based Master of Arts. Maximum completion time is four years.

#### Supervisory Assignments, Research Proposal and Required Examinations

##### Type

Completion Requirement

##### Additional Comments:

#### Supervisory Assignments

An interim supervisor is assigned to all incoming students in the thesis-based MA programs. Thesis-based MA students, after one term in the program, will make supervisory arrangements with a faculty member in the chosen area of research.

#### Research Proposal

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

Thesis-based Master of Arts students are required to prepare a thesis proposal within nine months of the date of entry into the program.

## Thesis Examinations

Thesis examinations are open. In addition to Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. Information on departmental funding is available in the online [Graduate Student Handbook](#). For further information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## Overview

### General Program Information

The PhD programs in Sociology is offered as a full-time program only.

Email address: <mailto:artsgradsc@ucalgary.ca>

Web page URL: [soci.ucalgary.ca](http://soci.ucalgary.ca)

## Admissions

### Program Admissions Information

Deadlines for submission of completed applications is available on the Future Students website: <https://grad.ucalgary.ca/future-students/explore-programs/sociology-phd>

In addition to the Faculty of Graduate Studies [admission](#) requirements and Faculty of Arts requirements, the program requires:

- a) A grade point average of 3.5 on a four-point scale over a master's program.
- b) Demonstrated competence in sociological theory, social methodology, and social statistics, in addition to a substantive interest.
- c) A written statement of intent.
- d) A sample of written work.
- e) Two reference letters.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to Faculty of Graduate Studies [requirements](#) and Faculty of Arts requirements, the Department requires:

a) Course requirements:

- [SOCI611 Soc Stats:General Linear Model](#) (students who have completed this or an equivalent graduate-level statistics course may substitute any other 600- or 700-level course);
- [SOCI706 Doctoral Seminar Prof SOCI I](#), [SOCI707 Doctoral Seminar Prof SOCI II](#) and [SOCI731 Doctoral Seminar Soci Theory](#);
- 6 units of methodology courses at the 700 level;
- 6 units of electives on substantive topics at the 600 or 700 level; at least 3 units of elective must be selected from Sociology Department offerings.

b) Completion of the PhD Thesis requirement.

## Copyediting Policy

Students may hire an editor to copyedit their theses. The student, supervisor and editor must abide by the following regulations:

1. Prior to hiring a copy editor, permission from the supervisor(s) must be obtained. An agreement outlining the permitted scope of editing must be signed by the student and the supervisor(s).
2. A disclosure statement is required in the thesis (e.g., a sentence in the preface or acknowledgment stating that the thesis has been professionally edited).
3. Under no circumstances should the copyediting alter the content, structure or contribution of the thesis.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring the grade point average to a required level for admission.

Credit may be allowed for up to three 600- or 700-level courses (9 units).

## Flexible Grade Option (CG Grade)

The Department of Sociology will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course applicable to the Sociology graduate degree; or apply any course awarded a grade of CG towards graduation requirements for the Sociology graduate degree.

Students may choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

No credit will be given for undergraduate courses.

## Time Limit

Expected completion time is four years for the Doctor of Philosophy degree. Maximum completion time is six years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An interim supervisor is assigned to all incoming students in the PhD program. PhD students, after two terms in the program, will make supervisory arrangements with a faculty member in the chosen area of research. In the case of PhD students, the supervisor and student will select two other faculty members to serve on the student's supervisory committee.

## Research Proposal

Students whose research involves human subjects must receive approval from University of Calgary Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board (if applicable) before beginning data collection.

## Required Examinations

### Candidacy

Doctoral students must complete a thesis prospectus, normally within fourteen months of initial registration in the doctoral program. Successful completion of the prospectus means that the Supervisory Committee has approved the thesis project, and a written copy of the prospectus is filed with the Sociology Department Student Administrator.

Doctoral students must pass a Field of Study examination with a written and an oral component, normally completed within twenty months of initial registration in the doctoral program.

For complete details of the candidacy requirements, see [soci.ucalgary.ca/graduate/phd-program](http://soci.ucalgary.ca/graduate/phd-program).

## Thesis Examinations

Thesis examinations are open. In addition to Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. Information on departmental funding is available in the online [Graduate Student Handbook](#). For further information on awards, please see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for Graduate Award Competitions through the Faculty of Graduate Studies must submit their applications to the Department by January 15.

## Werklund School of Education Department

Summary of Degree Programs

Program Information

Werklund School of Education Regulations

Program Details

Administration

Courses of Instruction by Werklund School of Education

## Programs

### Overview

General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

Program Admissions Information

For Admission into the Two-Year BEd (After-Degree) Program, see [3.1 Admission](#).

## Program Details

Simple Requisites

### Program Requirements

#### Type

#### Completion Requirement

The following Education courses must be completed.

**Complete ALL of the following Course Sets:**

- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 460
- Education 521, 525, 530
- Education 535
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569

The following Field Experience courses must be completed successfully with a grade of "CR" (Completed Requirements):

**Complete ALL of the following Course Sets:**

- Education 440, 465, 540, 560

Note: Community-Based pathway students must meet the same course requirements, and should refer to section [3.2.3](#) for residency requirements.

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations](#).

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

**Program Admissions Information**

For Admission into the Two-Year BEd (After-Degree) Program, see [3.1 Admission](#).

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

The following Education courses must be completed.

##### Complete ALL of the following Course Sets:

- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 460
- Education 521, 525, 530
- Education 535
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569

The following Field Experience courses must be completed successfully with a grade of "CR" (Completed Requirements):

##### Complete ALL of the following Course Sets:

- Education 440, 465, 540, 560

Note: Community-Based pathway students must meet the same course requirements, and should refer to section [3.2.3](#) for residency requirements.

#### Honours Requirements

In addition to the requirements for the Two-Year BEd (After-Degree (above), BEd (Honours) students must successfully complete:

##### Complete ALL of the following Requirement Sets:

- BEd Honours Program

#### Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

New applicants should refer to [A.5](#) in the Admissions section of this Calendar for regulations regarding University admission requirements.

High school course requirements for admission to the Five-Year BEd (Concurrent) program are determined by the co-degree faculty (Faculty of Arts, Science or Kinesiology). The Werklund School of Education does not have additional course requirements for admission to the Concurrent program. Enrolment in the Werklund School of Education is limited and students will be admitted on a competitive basis. Meeting the minimum requirements for the Faculty of Arts, Science, or Kinesiology, or the minimum requirements for the BEd, does not guarantee admission to the Werklund School of Education.

### Change of Program to the Five-Year BEd (Concurrent) Program

Students who wish to complete a change of program can have up to 60 units in transferable courses at the post-secondary level by the end of the Winter Term preceding their desired Fall Term admission. See [A.5.3.1](#) Transfer Admission Requirements for more information.

The standard structure within the Five-Year Concurrent BEd program is for students to do the first three years within their co-operating faculty (Faculty of Arts, Science, or Kinesiology) and the last two years within Education. Students must end the Concurrent BEd program completing 500-level Education courses.

### Concurrent Degree Combinations

Concurrent students may select from the following teachable subject area and co-degree major combinations:

Elementary Route Teachable Subjects	Allowable Co-Degree Majors
Early Childhood Education, English Language Arts, English Language Learners, French, Inclusive Education, Mathematics, Science, Second Languages, Social Studies, and Social Studies – Revitalization of Indigenous Languages	<b>Arts Majors</b> - Canadian Studies(1), Global Development Studies, English, French, Geography, History, International Relations, Political Science, Sociology, Spanish, Multidisciplinary Studies* <b>Kinesiology Majors</b> - Kinesiology <b>Science Majors</b> - General Mathematics, Natural Sciences** *Multidisciplinary Studies may only pair with Early Childhood Education, English Language Arts, English Language Learners, Inclusive Education, Second Languages, Social Studies, and Social Studies – Revitalization of Indigenous Languages **Concentrations only allowed in Biology, Chemistry, or Physics
Fine Arts – Drama	Arts Majors – BFA Drama
Fine Arts – Music	Arts Majors – BMus - Music Education
Fine Arts – Visual Studies	Arts Majors – BFA Visual Studies
Physical Education	Kinesiology (Kinesiology Major)
Physical Education	Kinesiology (Leadership in Pedagogy and Coaching(1))
Secondary Route Teachable Subjects	Allowable Co-Degree Majors
English Language Arts	Arts Majors – English
Fine Arts – Dance	Arts Majors – Dance, Dance Pedagogy Concentration
Fine Arts – Drama	Arts Majors – BFA Drama
Fine Arts – Music	Arts Majors – BMus - Music Education
Fine Arts – Visual Studies	Arts Majors – BFA Visual Studies
French	Arts Majors – French
Mathematics	Science Majors - General Mathematics
Physical Education	Kinesiology Majors – Kinesiology, Leadership in Pedagogy and Coaching(1)
Science - Biology	Science Majors – Natural Sciences** **Must have C1 in Biology; C2 in Chemistry or Physics
Science - Chemistry	Science Majors - Natural Sciences** **Must have C1 in Chemistry; C2 in Biology or Physics
Science - Physics	Science Majors – Natural Sciences** **Must have C1 in Physics; C2 in Biology or Chemistry
Second Languages	Arts Majors – Spanish
Social Studies and Social Studies – Revitalization of Indigenous Languages	Arts Majors – Canadian Studies(1), Global Development Studies, Geography, History, International Indigenous Studies, International Relations, Political Science, Sociology

(1)Admission to these programs is suspended.

## Program Details

### Simple Requisites

#### Program Requirement

#### Type

#### Completion Requirement

The following Education courses must be completed.

The Werklund School of Education in partnership with the Faculties of Arts, Science, and Kinesiology offers a number of Five-Year BEd (Concurrent) degree programs.

Consult with the partner faculty for the required non-Education courses.

**Complete ALL of the following Course Sets:**

- Education 201

- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 460
- Education 521, 525, 530
- Education 535
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569

The following Field Experience courses must be completed successfully with a grade of "CR" (Completed Requirements):

**Complete ALL of the following Course Sets:**

- Education 440, 465, 540, 560

The following Non-Education course is required for teacher certification:

**Earn at least 3 credits from the following:**

- English or French Literature

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

**Degree Options**

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates
- Werklund School of Education - Honours

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

- . . .

## Admissions

### Program Admissions Information

New applicants should refer to [A.5](#) in the Admissions section of this Calendar for regulations regarding University admission requirements.

High school course requirements for admission to the Five-Year BEd (Concurrent) program are determined by the co-degree faculty (Faculty of Arts, Science or Kinesiology). The Werklund School of Education does not have additional course requirements for admission to the Concurrent program. Enrolment in the Werklund School of Education is limited and students will be admitted on a competitive basis. Meeting the minimum requirements for the Faculty of Arts, Science, or Kinesiology, or the minimum requirements for the BEd, does not guarantee admission to the Werklund School of Education.

### Change of Program to the Five-Year BEd (Concurrent) Program

Students who wish to complete a change of program can have up to 60 units in transferable courses at the post-secondary level by the end of the Winter Term preceding their desired Fall Term admission. See [A.5.3.1](#) Transfer Admission Requirements for more information.

The standard structure within the Five-Year Concurrent BEd program is for students to do the first three years within their co-operating faculty (Faculty of Arts, Science, or Kinesiology) and the last two years within Education. Students must end the Concurrent BEd program completing 500-level Education courses.

### Concurrent Degree Combinations

Concurrent students may select from the following teachable subject area and co-degree major combinations:

Elementary Route Teachable Subjects	Allowable Co-Degree Majors
Early Childhood Education, English Language Arts, English Language Learners, French, Inclusive Education, Mathematics, Science, Second Languages, Social Studies, and Social Studies – Revitalization of Indigenous Languages	<b>Arts Majors</b> - Canadian Studies(1), Global Development Studies, English, French, Geography, History, International Relations, Political Science, Sociology, Spanish, Multidisciplinary Studies* <b>Kinesiology Majors</b> - Kinesiology <b>Science Majors</b> - General Mathematics, Natural Sciences** *Multidisciplinary Studies may only pair with Early Childhood Education, English Language Arts, English Language Learners, Inclusive Education, Second Languages, Social Studies, and Social Studies – Revitalization of Indigenous Languages **Concentrations only allowed in Biology, Chemistry, or Physics
Fine Arts – Drama	Arts Majors – BFA Drama
Fine Arts – Music	Arts Majors – BMus - Music Education
Fine Arts – Visual Studies	Arts Majors – BFA Visual Studies
Physical Education	Kinesiology (Kinesiology Major)
Physical Education	Kinesiology (Leadership in Pedagogy and Coaching(1))
Secondary Route Teachable Subjects	Allowable Co-Degree Majors
English Language Arts	Arts Majors – English
Fine Arts – Dance	Arts Majors – Dance, Dance Pedagogy Concentration
Fine Arts – Drama	Arts Majors – BFA Drama
Fine Arts – Music	Arts Majors – BMus - Music Education
Fine Arts – Visual Studies	Arts Majors – BFA Visual Studies
French	Arts Majors – French
Mathematics	Science Majors - General Mathematics
Physical Education	Kinesiology Majors – Kinesiology, Leadership in Pedagogy and Coaching(1)
Science - Biology	Science Majors – Natural Sciences** **Must have C1 in Biology; C2 in Chemistry or Physics
Science - Chemistry	Science Majors - Natural Sciences** **Must have C1 in Chemistry; C2 in Biology or Physics
Science - Physics	Science Majors – Natural Sciences** **Must have C1 in Physics; C2 in Biology or Chemistry
Second Languages	Arts Majors – Spanish
Social Studies and Social Studies – Revitalization of Indigenous Languages	Arts Majors – Canadian Studies(1), Global Development Studies, Geography, History, International Indigenous Studies, International Relations, Political Science, Sociology

(1)Admission to these programs is suspended.

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above

- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Degree Options

##### Type

##### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

#### Additional Comments:

For other regulations related to the Werklund School of Education, see: [\*\*3. Werklund School of Education Regulations.\*\*](#)

#### Program Requirements

##### Type

##### Completion Requirement

The following Education courses must be completed.

The Werklund School of Education in partnership with the Faculties of Arts, Science, and Kinesiology offers a number of Five-Year BEd (Concurrent) degree programs.

Consult with the partner faculty for the required non-Education courses.

**Complete ALL of the following Course Sets:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 460
- Education 521, 525, 530
- Education 535
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569

The following Field Experience courses must be completed successfully with a grade of "CR" (Completed Requirements):

**Complete ALL of the following Course Sets:**

- Education 440, 465, 540, 560

The following Non-Education course is required for teacher certification:

Earn at least 3 credits from the following:

- English or French Literature

## Honours Requirements

In addition to the requirements for the Five-Year BEd (Concurrent), (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

## Overview

### General Program Information

Graduate Programs in Education offers a Graduate Certificate: Bridge to Teaching for foreign-trained, experienced teachers who require additional advanced course credits in order to teach in K-12 schools in Alberta. Bridge to Teaching is a full-time program with 18 graduate course credits in education, including practicum. All courses need to be taken in a prescribed sequence, over one school year (September to April). For additional information please consult: <http://werklund.ucalgary.ca/gpe/>.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll-free in Canada 877.623.0292

Fax: 403.282.3005

Email address: [mailto:bridge@ucalgary.ca](mailto:mailto:bridge@ucalgary.ca)

Web page URL: <https://werklund.ucalgary.ca/gpe/bridge>

## Admissions

### Program Admissions Information

Application deadlines are available on the Future Students webpage at: <http://ucalgary.ca/future-students/graduate/explore-programs/bridge-teaching-certificate-course-based>.

Requirements for admission to the Certificate include:

- a) A four-year baccalaureate degree in Education or an equivalent degree from a recognized institution, with a grade point average of at least 3.00 or equivalent. See the Faculty of Graduate Studies' International Admission Requirements webpage at <http://www.ucalgary.ca/future-students/graduate/international> for specific country requirements.
- b) A letter from an evaluator at Alberta Education's Teaching Excellence and Certification. For further information, go to <https://alberta.ca/teaching-in-alberta.aspx>.
- c) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.  
The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code **0813**.
- d) One official transcript from all post-secondary institutions attended.
- e) A written 300-word statement of intent that includes answers to the following questions:

## UCalgary

- Please identify your reasons for applying to the Bridge to Teaching program.
- In what way is this program related to your desired career path or employment objectives?

f) Two references – References are submitted directly through the online application system.

g) A successful interview with the Academic Co-ordinator for Bridge to Teaching.

## Program Details

### Simple Requisites

#### Course Requirements

##### Type

##### Completion Requirement

A total of 18 course credits including 10 weeks of practicum.

Semester 1 Required Courses:

**Complete ALL of the following Courses:**

- EDBT601 - Contemporary Education  
**AND** EDBT602 - Teaching in Alberta I  
**AND** EDBT603 - Practicum Support Seminar I

Semester 2 Required Courses:

**Complete ALL of the following Courses:**

- EDBT604 - Learning with Technology  
**AND** EDBT605 - Teaching in Alberta II  
**AND** EDBT606 - Practicum Support Seminar II

#### Additional Comments:

##### Notes:

- Failure to attend the term to which a student has been admitted will result in the admission being rescinded.
- Failure to successfully complete any component of the program, including practicum, will result in withdrawal from the program.

##### General Notes:

- Completion of the Bridge to Teaching Certificate may not fulfill the requirements for teacher certification in Alberta.
- The Bridge to Teaching courses are recognized by the Teaching Excellence and Certification Branch of Alberta Education as fulfilling the requirements for 18 credits in Education coursework at the advanced level, and 10 weeks of supervised student teaching placement (practicum) in an Alberta classroom.

#### Additional Program Information

##### Type

##### Completion Requirement

#### Additional Comments:

## Police Information Check

All successful applicants to the Werklund School of Education are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than June 30, and

students will be required to request a new Police Information Check every 12 months. The original Police Information Check must be presented to the administration in the Graduate Programs in Education Office in the Werklund School of Education before the start of classes and to the partner school administration on the first day of Practicum (Education Bridge to Teaching 603, 606).

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

Police Information Check is required for all third-party practicum placements. Failure to present a current and clear Police Information Check may result in the student being unable to complete their practica. Successful completion of practica is required for graduation.

Students are obligated to inform the Faculty immediately of any change in status of their criminal record.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Time Limit

Expected completion time is eight (8) months to a maximum completion time of two years.

## Overview

### General Program Information

Blended delivery: online and blended courses with some face-to-face/on-campus meeting times at the University of Calgary main campus.

### Specializations:

- Adult Learning
- Curriculum and Learning
- Language and Literacy
- Leadership
- Learning Sciences

### Online Graduate Programs

Graduate Programs in Education offers online graduate programs via the web and other multi-media components to local, regional, national, and international communities. Programs include the thesis-based Doctor of Education (EdD), course-based Master of Education (MEd), Graduate Diploma and Graduate Certificate. Topics within each of these are offered in direct response to the needs of working professionals in a variety of settings including administrators, program directors, and deans in colleges and institutes of technology.

Contact: <mailto:gpe@ucalgary.ca> or 403.220.5675 or toll free in Canada (877) 623-0292.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<https://grad.ucalgary.ca/future-students/explore-programs/educational-research-edd>.

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In addition to the Faculty of Graduate Studies admission requirements, Graduate Programs in Education requires:

- a) A course or thesis-based master's degree in an appropriate field.
- b) A minimum grade point average of 3.50 on a four-point scale in a master's degree program.
- c) A written statement indicating the applicant's reasons for wishing to pursue a graduate program.
- d) Candidates will be expected to have, or obtain, relevant practical experience in their area of specialization.
- e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- f) Two references. Referees will be asked to complete an online reference form.

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## Admission Portfolio

Applicants to the Doctor of Education program are encouraged to submit an Admission Portfolio containing examples of their work. The purpose of the Admission Portfolio is to give applicants the opportunity to provide additional documentation that demonstrates their suitability and qualification for doctoral studies. The Admission Portfolio is particularly relevant for program applicants who do not hold a thesis-based master's degree.

The Doctoral Admission Portfolio may contain the following:

- a) Thesis (if applicable).
- b) Reports.
- c) Research grants or scholarships.
- d) Articles.
- e) Curriculum documents.
- f) Non-print materials, e.g., multimedia.
- g) Evidence of relevant prior learning (see below).
- h) Personal statement documenting research and professional skills and interests.

The Doctoral Admission Portfolios must include a Table of Contents and an Executive Summary that outlines the contents of the Portfolio.

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## Relevant Prior Learning Considerations

In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to the program. The candidates must provide Graduate Programs in Education with evidence demonstrating a potential to undertake successfully the proposed program of studies. Such candidates are advised to make early contact with Graduate Programs in Education, and supply additional supporting documents as part of their application package, such as:

- a) Evidence of personal continuing education/training.
- b) Results in these continuing education efforts.

- c) Experience in a field related to the aspired degree.
- d) Evidence of successful management of people, resources, finances, situations.
- e) Increasing or varying responsible positions in organizations related to the aspired degree.
- f) Work-related products, e.g. reports, programs of learning or training, handbooks, videos, manuals, workshops, seminars.
- g) Evidence of personal growth in knowledge, understanding, management skills, and intellectual resources.
- h) Evidence of innovation.
- i) Evidence of leadership or co-ordination responsibilities.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

#### Complete ALL of the following Courses:

- EDER711 - Advanced Research Methodologies I  
**AND** EDER712 - Advanced Research Methodologies II  
**AND** EDER707 - Collaboratory of Practice I  
**AND** EDER708 - Collaboratory of Practice II  
**AND** EDER709 - Dissertation Seminar I  
**AND** EDER710 - Dissertation Seminar II
- Plus 12 units in the student's specialization area at the 700-level.

Note: EDER 709 and 710 are to be completed post-candidacy.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

Expected completion for students in the EdD program is four years with a maximum completion time of six years.

## Supervisory Assignments and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

A supervisor is normally appointed at the time of admission.

## Required Examinations

### Candidacy

Admission into Candidacy in the Werklund School of Education Graduate Programs: 1) requires that students have abilities to conceptualize, interpret, critique and synthesize comprehensive, substantive knowledge that is relevant to the discipline and practice of educational research; and 2) ensures that students have a well-developed plan for their dissertation research, a sound proposal with a well-developed research question, and consideration of ethical issues that demonstrate the ability to pursue and complete original independent research at the doctoral level.

In compliance with the Faculty of Graduate Studies [Candidacy Regulations](#), the requirements for Admission to Candidacy at the Werklund School of Education is a 4 stage process:

1. Completion of all course requirements as identified in the calendar;
2. Field of study (FoS) written paper;
3. A research proposal approved by the Supervisory Committee (recognizing changes may be made after successful completion of the Candidacy exams);
4. An oral examination of the research proposal;

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRISS](#).

All Candidacy requirements must be completed within 28 months of the start of the program.

For further information, please consult the Graduate Programs in Education [website](#).

## Thesis

The Doctoral thesis is the focus of the degree program. In consultation with the supervisor, the student should formulate an appropriate thesis topic as early as possible in the program.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have approved the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

## Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Graduate Certificate (Interdisciplinary Studies) is the first credential in a three-stage, ladder pathway consisting of:

1. Graduate Certificate

2. [GDIP Educa](#)

3. [MEd Ed Res](#)

The Graduate Certificate, Graduate Diploma and Master of Education are continuous programs with no scheduled breaks.

Students who complete the Graduate Certificate and the Graduate Diploma and who are subsequently accepted into the Master of Education program will be granted 24 units of laddering credit towards the Master's degree. A direct entry into a 24-unit Graduate Diploma may be possible with the approval of Graduate Programs in Education.

Topics for the Graduate Certificate and Graduate Diploma courses are designed in response to the professional community and therefore change year to year. For topics being offered and program delivery format for Graduate Certificates and Graduate Diplomas, please consult the Graduate Programs in Education [website](#).

Students following the MEd Interdisciplinary ladder pathway must apply at each stage; first, to the Graduate Certificate, then to the Graduate Diploma and finally to the Master of Education, with no more than five years between each stage.

### Online Graduate Programs

Graduate Programs in Education offers online graduate programs via the web and other multi-media components to local, regional, national, and international communities. Programs include the thesis-based Doctor of Education (EdD), course-based Master of Education (MEd), Graduate Diploma and Graduate Certificate. Topics within each of these are offered in direct response to the needs of working professionals in a variety of settings including administrators, program directors, and deans in colleges and institutes of technology.

Contact: [gpe@ucalgary.ca](mailto:gpe@ucalgary.ca) or 403.220.5675 or toll free in Canada (877) 623-0292.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-education-interdisciplinary-course-based>.

## UCalgary

In addition to the Faculty of Graduate Studies admission requirements, the Office of Graduate Programs in Education requires:

- a) A University of Calgary four-year baccalaureate degree or an equivalent degree from a recognized institution. Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- c) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- d) Two references are required to apply to the graduate certificate. Referees will be asked to complete an online reference form. Please note that references are not required for previously admitted students seeking admission to the Graduate Diploma or Master of Education (Interdisciplinary Studies).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

The Graduate Certificate requires 12 units in **Educational Research courses**.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the application process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate credentials.

### Time Limit

The expected completion time is one year for each of the program credentials in the ladder pathway to a maximum of two years for each of the Graduate Certificate, Graduate Diploma and Master of Education.

## Academic Coordinator Assignments

An academic coordinator is assigned to the cohort of students in the course-based Master of Education program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Graduate Diploma (Interdisciplinary Studies) is the second credential in a three-stage, ladder pathway consisting of:

1. [GCERT Educ](#)
2. Graduate Diploma
3. [MEd Ed Res](#)

The Graduate Certificate, Graduate Diploma and Master of Education are continuous programs with no scheduled breaks.

Students who complete the Graduate Certificate and the Graduate Diploma and who are subsequently accepted into the Master of Education program will be granted 24 units of laddering credit towards the Master's degree. A direct entry into a 24-unit Graduate Diploma may be possible with the approval of Graduate Programs in Education.

Topics for the Graduate Certificate and Graduate Diploma courses are designed in response to the professional community and therefore change year to year. For topics being offered and program delivery format for Graduate Certificates and Graduate Diplomas, please consult the Graduate Programs in Education [website](#).

Students following the MEd Interdisciplinary ladder pathway must apply at each stage; first, to the Graduate Certificate, then to the Graduate Diploma and finally to the Master of Education, with no more than five years between each stage.

### Online Graduate Programs

Graduate Programs in Education offers online graduate programs via the web and other multi-media components to local, regional, national, and international communities. Programs include the thesis-based Doctor of Education (EdD), course-based Master of Education (MEd), Graduate Diploma and Graduate Certificate. Topics within each of these are offered in direct response to the needs of working professionals in a variety of settings including administrators, program directors, and deans in colleges and institutes of technology.

Contact: [gpe@ucalgary.ca](mailto:gpe@ucalgary.ca) or 403.220.5675 or toll free in Canada (877) 623-0292.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-education-interdisciplinary-course-based>.

In addition to the Faculty of Graduate Studies admission requirements, the Office of Graduate Programs in Education requires:

- a) A University of Calgary four-year baccalaureate degree or an equivalent degree from a recognized institution. Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- c) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- d) Two references are required to apply to the graduate certificate. Referees will be asked to complete an online reference form. Please note that references are not required for previously admitted students seeking admission to the Graduate Diploma or Master of Education (Interdisciplinary Studies).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

The Graduate Diploma requires 12 additional units in Educational Research courses.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the application process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate credentials.

## Time Limit

The expected completion time is one year for each of the program credentials in the ladder pathway to a maximum of two years for each of the Graduate Certificate, Graduate Diploma and Master of Education.

## Academic Coordinator Assignments

An academic coordinator is assigned to the cohort of students in the course-based Master of Education program.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

The Master of Education in Educational Research with a specialization in either Interdisciplinary Studies or School Counselling is a three-stage, ladder pathway consisting of:

1. [GCERT Educ](#)
2. [GDIP Educa](#)
3. Master of Education

#### Specializations:

- Interdisciplinary Studies
- School Counselling

Students following the MEd ladder pathway must apply at each stage; first, to the Graduate Certificate, then to the Graduate Diploma and finally to the Master of Education, with no more than five years between each stage.

Students who complete the Graduate Certificate and the Graduate Diploma and who are subsequently accepted into the Master of Education program will be granted 24 units of laddering credit towards the Master's degree. A direct entry into a 24-unit Graduate Diploma may be possible with the approval of Graduate Programs in Education.

Topics for the Graduate Certificate and Graduate Diploma courses are designed in response to the professional community and therefore change year to year. For topics being offered and program delivery format for Graduate Certificates and Graduate Diplomas, please consult the Graduate Programs in Education [website](#).

The Graduate Certificate, Graduate Diploma and Master of Education are continuous programs with no scheduled breaks.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkland.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

Application deadline is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-education-interdisciplinary-course-based>.

In addition to the Faculty of Graduate Studies admission requirements, the Office of Graduate Programs in Education requires:

- a) A University of Calgary four-year baccalaureate degree or an equivalent degree from a recognized institution. Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- c) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- d) Two references are required to apply to the graduate certificate. Referees will be asked to complete an online reference form. Please note that references are not required for previously admitted students seeking admission to the Graduate Diploma or Master of Education (Interdisciplinary Studies).

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

The degree consists of a three-stage ladder pathway: Graduate Certificate, Graduate Diploma, and the Master of Education.

#### The Master of Education, with a specialization in Interdisciplinary Studies requires:

- 12 units of coursework in an available topic area\* in the **GCERT Educ**; and
- 12 units of coursework in an available topic area\* in the **GDIP Educa**; and
- 12 additional units of Educational Research courses: **EDER600 Research Methodology Education**, **EDER602 Program & Practice Evaluation**, **EDER604 Collaboratory of Practice**, **EDER606 Writing Educational Research**.

#### The Master of Education with a specialization in School Counselling requires:

- 12 units of coursework in the Foundations of School and Counselling Psychology topic area in the **GCERT Educ**; and
- 12 units of coursework in any one of the following topic areas\* in the **GDIP Educa**:
  - Mental Health and Wellbeing in Schools: Social Justice in Practice
  - Supporting and Enhancing Children's Mental Health
- 12 additional units of Educational Research courses: **EDER650 ProfEthcsSchlBsdWllbngGdncCnsl**, **EDER652 Spprtng Stdnts Asprtn in Schl**, **EDER654 Exmn Implmt Adpt Mod MntIH I**, **EDER656 Exmn Implmt Adpt Mod MntIH II**.

*\*Not all topic areas are offered every year. For availability, consult the Werklund School of Education [website](#).*

#### Additional Program Information

##### Type

## Completion Requirement

### Additional Comments:

### Advanced Credit

Applicants to the Graduate Certificate must make [Advanced Credit](#) requests as part of the application process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

### Time Limit

The expected completion time is one year for each of the program credentials in the ladder pathway to a maximum of two years for each of the Graduate Certificate, Graduate Diploma and Master of Education.

### Academic Coordinator Assignments

An academic coordinator is assigned to the cohort of students in the course-based Master of Education program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

On campus, where some courses are on campus and some courses are online. Online courses are less than 50% of the total program.

### Specializations:

- Adult Learning
- Curriculum and Learning
- Language and Literacy
- Leadership
- Learning Sciences

Location: Education Tower, Room 114

# UCalgary

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-arts-thesis-based>.

In addition to the Faculty of Graduate Studies [Admission Requirements](#), Graduate Programs in Education requires:

- a) A written statement indicating the applicant's reasons for wishing to pursue a graduate program.
- b) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- c) Two references. Referees will be asked to complete an online reference form.

- d) Admission to the Learning Sciences specialization requires a 3.50 GPA.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the requirements of the Faculty of Graduate Studies, the Program requires:

- a) [EDER608 Research Methods in Education](#) and 3 units from any other 600-level thesis-based research methods in education course.
- b) Additional graduate courses or seminars as required by specializations (see below) and any additional courses as determined by the supervisor in consultation with the student.
  - Adult Learning requires 12 units selected from the Adult Learning courses;
  - Curriculum and Learning requires 9 units selected from the Curriculum and Learning courses;
  - Language and Literacy requires 9 units selected from the Language and Literacy courses;
  - Leadership requires 12 units selected from the Leadership and Policy courses;
  - Learning Sciences requires 6 units selected from the Learning Sciences courses, and 6 additional units from any other Educational Research specialization.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

## Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit For Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

Expected completion time for full-time students is two years in thesis-based master's programs. Maximum completion time is four years for thesis-based master's programs.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

A supervisor is normally appointed at the time of admission.

A supervisory committee, approved by the Graduate Program Director, is required for MA or MSc students choosing the manuscript-based thesis route. Normally, the committee will consist of the supervisor and two members (see [Supervision](#)).

## Research Proposal Requirements

Information on research proposals is available through the supervisor.

Ethics approval is required for all research projects involving the use of human subjects before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRISS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRISS](#).

## Required Examinations

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have approved the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this calendar and the Graduate Awards and Scholarships page of the Werklund School of Education [website](#).

## Overview

### General Program Information

Please note: This degree requires a two year full-time residency. Students must be available during the day to attend research seminars, courses, and to perform teaching and research related duties at the university campus for the first two years of their program.

### Specializations:

- Adult Learning
- Curriculum and Learning
- Language and Literacy
- Leadership
- Learning Sciences

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/educational-research-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies [Admission Requirements](#), Graduate Programs in Education requires:

- a) A thesis-based master's degree in an appropriate field. Outstanding applicants holding master's degrees without thesis may be considered.
- b) A minimum grade point average of 3.50 on a four-point scale in a master's degree program.
- c) A written statement indicating the applicant's reasons for wishing to pursue a graduate program.
- d) Where appropriate, candidates will be expected to have, or to obtain, relevant practical experience in their area of specialization.

e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

f) Two references. Referees will be asked to complete an online reference form.

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## Admission Portfolio

Applicants to the Doctor of Philosophy program are encouraged to submit an Admission Portfolio containing examples of their work. The purpose of the Admission Portfolio is to give applicants the opportunity to provide additional documentation that demonstrates their suitability and qualification for doctoral studies. The Admission Portfolio is particularly relevant for program applicants who do not hold a thesis-based master's degree.

The Doctoral Admission Portfolio may contain the following:

- a) Thesis (if applicable).
- b) Reports.
- c) Research grants or scholarships.
- d) Articles.
- e) Curriculum documents.
- f) Non-print materials, (e.g. multimedia).
- g) Evidence of relevant prior learning (see below).
- h) Personal statement documenting research skills and interests.

The Doctoral Admission Portfolio must include a Table of Contents and an Executive Summary that outlines the contents of the Portfolio.

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## Relevant Prior Learning Considerations

In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to the program. The candidates must provide Graduate Programs in Education with evidence demonstrating a potential to undertake successfully the proposed program of studies. Such candidates are advised to make early contact with Graduate Programs in Education, and supply additional supporting documents as part of their application package, such as:

- a) Evidence of personal continuing education/training.
- b) Results in these continuing education efforts.
- c) Experience in a field related to the aspired degree.
- d) Evidence of successful management of people, resources, finances, situations.
- e) Increasing or varying responsible positions in organizations related to the aspired degree.
- f) Work-related products, e.g. reports, programs of learning or training, handbooks, videos, manuals, workshops, seminars.
- g) Evidence of personal growth in knowledge, understanding, management skills, and intellectual resources.
- h) Evidence of innovation.
- i) Evidence of leadership or co-ordination responsibilities.

## Program Details

### Simple Requisites

<b>Program/Course Requirements</b> <b>Type</b>
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## Completion Requirement

### Additional Comments:

In addition to the requirements of the Faculty of Graduate Studies, Graduate Programs in Education requires that students be available on campus for the first two years of their program.

a) **EDER702 Sem First-Year Dctrl Stdnt I** and **EDER704 Sem First-Year Dctrl Stdnt II**;

b) Additional 9 units of 700-level thesis-based courses in research methods (excluding EDER 707, 708, 709, 710, 711 and 712);

c) Additional graduate courses or seminars as required by the student's specialization. Courses may be selected from any 700-level Education Research courses:

- Adult Learning requires 9 units which must focus on Adult Learning;
- Curriculum and Learning requires 9 units which must focus on Curriculum and Learning;
- Language and Literacy requires 9 units which must focus on Language and Literacy;
- Leadership requires 9 units which must focus on Leadership and Policy;
- Learning Sciences requires 9 units which must focus on Learning Sciences.

d) Any additional courses as determined by the supervisor in consultation with the student.

## Additional Program Information

### Type

Completion Requirement

### Additional Comments:

## Advanced Credit

The applicant must make **Advanced Credit** request as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit For Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

Expected completion time for full-time students is four years with a maximum completion time of six years.

## Supervisory Assignment and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

A supervisor is normally appointed at the time of admission.

## Required Examinations

## Candidacy

Admission into Candidacy in the Werklund School of Education Graduate Programs: 1) requires that students have abilities to conceptualize, interpret, critique and synthesize comprehensive, substantive knowledge that is relevant to the discipline and practice of educational research; and 2) ensures that students have a well-developed plan for their dissertation research, a sound proposal with a well-developed research question, appropriate methodology, and consideration of ethical issues that demonstrate the ability to pursue and complete original independent research at the doctoral level.

In compliance with the Faculty of Graduate Studies [Candidacy](#) Regulations, the requirements for Admission to Candidacy at the Werklund School of Education is a 4-stage process:

1. Completion of all course requirements as identified in the calendar;
2. Field of study (FoS) written paper;
3. A research proposal approved by the Supervisory Committee (recognizing changes may be made after successful completion of the Candidacy exams);
4. An oral examination of the research proposal;

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRISS](#).

All Candidacy requirements must be completed within 28 months of the start of the program.

For further information, please consult the Graduate Programs in Education [website](#).

## Thesis

The Doctoral thesis is the focus of the degree program. In consultation with the supervisor, the student should formulate an appropriate thesis topic as early as possible in the program because the thesis proposal affects the choice and number of courses needed in order to complete the program.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have approved the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

### General Program Information

### Specializations:

- Adult Learning
- Curriculum and Learning
- Language and Literacy

# UCalgary

- Leadership
- Learning Sciences

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Online and blended courses with some face-to-face on-campus meeting times at the University of Calgary.

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For current specialization areas being offered and program delivery format, please consult the [website](#).

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Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for submission of complete applications is available on the Future Students website: <http://www.ucalgary.ca/future-students/graduate/explore-programs/educational-research-master-education-specialist-course-based>.

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In addition to the Faculty of Graduate Studies admission requirements, Graduate Programs in Education requires:

- a) A University of Calgary four-year baccalaureate degree or an equivalent degree from a recognized institution. Degrees and grades from foreign institutions are evaluated for their equivalency to those of the University of Calgary.
- b) A minimum GPA of 3.00 (on the University of Calgary four-point system). This is based on the last two years of the undergraduate degree consisting of a minimum of 60 units.
- c) A written statement indicating the applicant's reasons for pursuing a graduate program in Graduate Programs in Education.
- d) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

- e) Two references. Referees will be asked to complete an online reference form.

## Relevant Prior Learning Considerations

In exceptional circumstances, individuals who do not meet formal academic requirements but who have significant life achievements may be considered for admission to the program. The candidates must provide the relevant graduate program with evidence demonstrating a potential to undertake successfully the proposed program of studies. Such candidates are advised to make early contact with Graduate Programs in Education, and supply additional supporting documents as part of their application package, such as:

- a) Evidence of personal continuing education/training.
- b) Results in these continuing education efforts.
- c) Experience in a field related to the aspired degree.
- d) Evidence of successful management of people, resources, finances, situations.
- e) Increasing or varying responsible positions in organizations related to the aspired degree.
- f) Work-related products, e.g. reports, programs of learning or training, handbooks, videos, manuals, workshops, seminars.
- g) Evidence of personal growth in knowledge, understanding, management skills, and intellectual resources.

- h) Evidence of innovation.
- i) Evidence of leadership or co-ordination responsibilities.
- j) Evidence of academic writing.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

The MEd Specialist route is a two or three-year, cohort-based, course-based program.

**Complete ALL of the following Course Sets:**

- EDER MEd Course Set
- Plus 24 units in the student's area of Specialization.

#### Additional Comments:

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make [Advanced Credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma, or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Credit For Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

### Time Limit

Expected completion time is two or three years, per admission cohort. Maximum completion time is six years for a course-based master's program.

### Academic Coordinator Assignments

An academic coordinator is assigned to the cohort of students in the course-based Master of Education program.

#### Financial Assistance

**Type**

Completion Requirement

**Additional Comments:**

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

## Overview

**General Program Information**

Please note that Graduate Programs in Education is not admitting students to the MEd with specialization in Counselling Psychology this year.

## Admissions

## Program Details

## Overview

**General Program Information**

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

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The MSc in Educational Psychology with specialization in Counselling Psychology is delivered on-campus.

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Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkslund.ucalgary.ca/gpe/>

## Admissions

**Program Admissions Information**

The deadline for the submission of complete applications is available on the Future Students webpage: <http://ucalgary.ca/future-students/graduate/explore-programs/counselling-psychology-master-science-thesis-based>.

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In addition to the Faculty of Graduate Studies requirements, entry requirements for the Counselling Psychology Master of Science program include:

a) A four-year undergraduate degree with a minimum grade point average of 3.00 over the courses taken during the last two years of study.

b) Normally, a minimum of 24 units in Educational Psychology and/or Psychology. This must include:

One undergraduate statistics courses;

A senior undergraduate psychology or educational psychology course in the area of Communication Skills in Guidance and Counselling, or its equivalent, Working Alliance;

A senior undergraduate Psychology or Educational Psychology course in each of (a) cognitive psychology/learning theory, (b) social psychology, (c) biological bases of behaviour, and (d) developmental psychology.

c) A curriculum vitae including information about previous employment and volunteer experience, and a concise rationale for the application (500 words or less) including a description of the applicant's research interests and potential supervisors from within the counselling psychology program area, if applicable.

d) Two academic references; one of which is from the undergraduate honours supervisor, if an honours degree was completed. Optionally, a third reference from someone who has supervised the applicant in counselling-related employment or volunteer work.

e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

Note: A completed [Pre-Admissions Checklist](#) is required as part of the admissions process.

## Program Details

### Simple Requisites

Program/Course Requirements
Type
Completion Requirement
<p>In addition to the Faculty of Graduate Studies requirements, the MSc Counselling Psychology program requires the following:</p> <p>42 units of course work that includes:</p> <p><b>Complete ALL of the following Courses:</b></p> <ul style="list-style-type: none"> <li>EDPS600 - Theories , Conceptualizations, and Interventions in Counselling Psychology I</li> <li><b>AND</b> EDPS601 - Theories, Conceptualizations, and Interventions in Counselling Psychology II</li> <li><b>AND</b> EDPS609 - Research Design in Statistics II</li> <li><b>AND</b> EDPS614 - Ethics in Professional Psychology</li> <li><b>AND</b> EDPS615 - Theoretical and Clinical Foundations of Assessment</li> <li><b>AND</b> EDPS625 - Cultural Influences on Professional Practice</li> <li><b>AND</b> EDPS631 - Theories of Career Development</li> </ul>
<p><b>Complete at least 1 of the following courses:</b></p> <ul style="list-style-type: none"> <li>EDPS611 - Qualitative Research Methodologies</li> <li><b>OR</b> EDPS618 - Multivariate Design and Analysis</li> </ul>
<p><b>Complete at least 1 of the following courses:</b></p> <ul style="list-style-type: none"> <li>EDPS627 - Group Processes in Applied Psychology</li> <li><b>OR</b> EDPS637 - Relationship Counselling</li> </ul>

Complete at least 1 of the following courses:

- EDPS628 - Theories and Applications of Child and Youth Therapy  
**OR** EDPS645 - Indigenous Approaches to Therapy

Complete at least 1 of the following courses:

- EDPS617 - Psychological Assessment of Adults  
**OR** EDPS620 - Psychological Assessment of Children and Youth

Complete ALL of the following Courses:

- EDPS647 - Practicum in Counselling Psychology I  
**AND** EDPS640 - Practicum in Counselling Psychology II

Additional Comments:

## Police Information Check

All successful applicants to the Werklund School of Education Counselling Psychology program are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC requirement" declaration form prior to the start of the program. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than June 30, and students will be required to request a new Police Information Check every year in which they enroll in a practicum course (Educational Psychology 640, 647). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum. Successful completion of Practicum is required for graduation.

Students are obligated to inform the Faculty immediately of any change in status of their criminal record.

## Additional Program Information

### Type

Completion Requirement

Additional Comments:

## Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate Programs in Education do not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Master of Science requires two years of full-time study to complete. Maximum time allowed for completion of the Master of Science degree is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An interim advisor is assigned to each first-year student in a thesis-based program. Students are responsible for initiating discussions with potential permanent supervisors and are expected to have finalized supervisory arrangements by their second annual registration.

A supervisory committee, approved by the Graduate Program Director, is required for MSc students choosing the manuscript-based thesis route. Normally, the committee will consist of the supervisor and two members (see [Supervision](#))

## Research Proposal Requirements

Information on research proposals is available through the interim advisor/supervisor.

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRIS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRIS](#).

## Required Examinations

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education by the posted deadline dates for individual awards as noted at <https://werk.lund.ucalgary.ca/graduate-programs/awards>.

Graduate Programs in Education also provides assistance for students through teaching assistantships, graduate research

scholarships and other scholarships. Application forms and deadline information for these awards can be obtained from Graduate Programs in Education.

## Overview

### General Program Information

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

Note: The Doctoral Program in Educational Psychology with specialization in Counselling Psychology has been granted accreditation by the Canadian Psychological Association (CPA) since 2011.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkklund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: <http://ucalgary.ca/future-students/graduate/explore-programs/counselling-psychology-doctor-philosophy-thesis-based>.

In addition to the Faculty of Graduate Studies [admission requirements](#), entry requirements include:

a) A completed thesis-based master's degree in Counselling Psychology or equivalent from an approved university, with a minimum grade point average of 3.50 in the master's program, including 500 hours of practicum, with a minimum of 400 hours (200 direct client contact hours) completed under the supervision of a registered psychologist.

Note: If coursework or practicum from an applicant's master's program is not equivalent to the Master of Science in Counselling Psychology at the University of Calgary, the student may be admitted as a qualifying student (see [G.A.3 Admission Categories](#)). A qualifying student is required to take additional courses within the doctoral program to ensure equivalent training.

b) Two senior undergraduate or one graduate course (3 units each) in (i) biological bases of behaviour, (ii) cognitive-affective bases of behaviour, (iii) social bases of behaviour, and (iv) individual behaviour.

c) One senior undergraduate or one graduate course in the historical and scientific foundations of general psychology.

d) One graduate course in Indigenous Approaches to therapy ([EDPS645 Indigenous Approaches Therapy](#)) or equivalent.

Note: Students may be considered for admission to the PhD program in Counselling Psychology if up to 12 units of prerequisite courses outlined in b), c) and d) have not been completed at the time of application. Prerequisite coursework must be completed before the doctoral candidacy examination.

e) A curriculum vitae including information about previous employment and volunteer experience, and a concise rationale (500 words or less) for the application including a description of the applicant's research interests and potential supervisors from within the counselling psychology program area, if applicable.

f) Three references: two academic references and one from someone who has provided clinical supervision for the applicant (e.g., a practicum supervisor). It is recommended that one of the academic references be the applicant's master's thesis supervisor or a professor who is familiar with the applicant's thesis research.

g) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course. The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code **0813**.

Note: A completed **Pre-Admissions Checklist** is required as part of the admissions process.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

Completion Requirement

##### Additional Comments:

In addition to the Faculty of Graduate Studies requirements, the degree program requires the following:

a) 24 units of course work at the doctoral level that includes:

i. **EDPS706 Adv Rsrch Sem Counsell Psyc I** and **EDPS707 Adv Rsrch Sem Counsell Psyc II** and an additional 3-unit course in research methods at 600 or 700 level as approved by the supervisor;

ii. **EDPS712 Program Evaluation & Consult I**, **EDPS713 Program Evaluatn & Consult II** and **EDPS731 Adv Clin Supervision App Psyc**;

iii. Practicum courses: **EDPS752 Advanced Practicum Counsell I** and **EDPS753 Advanced Practicum Counsell II**; and **EDPS772 Adv Pract Psycholog Assess I** and **EDPS773 Adv Pract Psycholog Assess II**. Note Police Information Check below.

b) A twelve-month full-time internship. Completion of this requirement will be recorded on the student transcript as a milestone. Note section 6 Police Information Check below.

Course content addresses theory, research, and practice in the domains identified by the Canadian Psychological Association (CPA) for accreditation of doctoral programs in professional psychology.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **advanced credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Police Information Check

All successful applicants to the Werklund School of Education Counselling Psychology program are required to provide a current Police Information Check (obtained from their nearest police service or RCMP attachment in the area where they

reside), which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC Requirement" declaration form prior to the start of the program. In order to be considered "current", the Police Information Check must be completed no earlier than June 30 and students will be required to request a new Police Information Check every year in which they enroll in a practicum or internship (Educational Psychology 752, 753, 772 and 773). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum or internship.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum and internship placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum or Internship. Successful completion of both Practicum and Internship are required for graduation.

Students are obligated to inform the Faculty immediately of any change in the status of their criminal record.

## Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Doctor of Philosophy degree is designed to be completed in four years. Maximum completion time allowed is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

An interim advisor is assigned to each first-year student in a thesis-based program. Students are responsible for initiating discussions with potential permanent supervisors and are expected to have finalized supervisory arrangements by their second annual registration.

### Research Proposal Requirements

Information on research proposals is available through the interim advisor/supervisor.

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRIS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRIS](#).

### Required Examinations

In addition to the Faculty of Graduate Studies requirements for [candidacy](#) and [thesis examinations](#), the program requires:

#### Candidacy

Admission into Candidacy in the Werklund School of Education Graduate Programs: 1) requires that students have abilities to conceptualize, interpret, critique and synthesize comprehensive, substantive knowledge that is relevant to the discipline and practice of educational psychology; and 2) ensures that students have a well-developed plan for their dissertation research, a sound proposal with a well-developed research question and potential for the ability to pursue and complete original independent research at the doctoral level.

In compliance with the Faculty of Graduate Studies Candidacy Regulations, the requirements for Admission to Candidacy at the Werklund School of Education is a four-stage process:

- Completion of all course requirements as identified in the calendar;
- Field of study (FoS) written paper;
- A research proposal approved by the Supervisory Committee (recognizing changes may be made after successful completion of exams prior to submission for ethics approval);
- An oral examination of the research proposal.

All Candidacy requirements must be completed within 28 months of the start of the program.

For further information, please consult the Graduate Programs in Education [website](#).

## Thesis

The doctoral thesis is the focus of the degree program. In consultation with the supervisor, the student should formulate an appropriate thesis topic as early as possible in the program because the thesis proposal affects the choice and number of courses needed in order to complete the program.

## Thesis Examination

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education office by the posted deadline dates for individual awards as noted at <https://werklund.ucalgary.ca/graduate-programs/awards>.

Graduate Programs in Education also provides assistance for students through teaching assistantships, graduate research scholarships and other scholarships. Application forms and deadline information for these awards can be obtained from Graduate Programs in Education.

## Overview

### General Program Information

**Admissions to this program are suspended as of July 1, 2018.**

Master of Counselling (MC) with specialization in Counselling Psychology, course-based - blended delivery: online and blended courses with some face-to-face/on-campus meeting times at the University of Calgary main campus.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: [gpe@ucalgary.ca](mailto:gpe@ucalgary.ca)

Web page URL: [werkklund.ucalgary.ca/gpe](http://werkklund.ucalgary.ca/gpe)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/counselling-psychology-master-counselling-course-based](http://ucalgary.ca/future-students/graduate/explore-programs/counselling-psychology-master-counselling-course-based).

In addition to the Faculty of Graduate Studies [admission](#) requirements, entry requirements include:

- a) A minimum of 9 units in Psychology or Educational Psychology, including one course each in human development and learning. In addition, applicants are required to have a senior undergraduate Psychology or Educational Psychology course in the area of Communication Skills in Guidance and Counselling, or its equivalent, Communication Skills – Interpersonal and Verbal Facilitation. All prerequisite coursework must be completed with a grade of "B-" or above.
- b) A curriculum vitae and a concise rationale for the application (500 words or less).
- c) Two references; either academic or practice supervisor.
- d) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code **0813**.

- e) Paid employment or volunteer work in counselling-related and research-related roles will be an asset.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies [requirements](#), the MC Counselling Psychology program requires the following:

A total of 45 units of course work that includes:

#### Complete ALL of the following Courses:

- EDPS602 - Counselling Theories and Professional Practice  
**AND** EDPS604 - Professional Ethics in Applied Psychology  
**AND** EDPS610 - Research Methodology in Counselling  
**AND** EDPS616 - Assessment Theory and Practices  
**AND** EDPS622 - Developing and Sustaining a Working Alliance with Clients  
**AND** EDPS624 - Cultural and Social Justice Issues in Professional Practice  
**AND** EDPS626 - Group Interventions and Processes  
**AND** EDPS630 - Foundations of Career Counselling  
**AND** EDPS638 - Counselling Interventions for Client Change  
**AND** EDPS646 - Processes of Learning  
**AND** EDPS648 - Lifespan Human Development  
**AND** EDPS664 - Psychological Approaches to Health  
**AND** EDPS670 - Final Project Portfolio

plus:

Practicum: [EDPS642 Counselling Practicum I](#), [EDPS644 Counselling Practicum II](#). Note Police Information Check below.

Detailed information on course requirements can be obtained from Graduate Programs in Education website:

<https://werklund.ucalgary.ca/graduate-programs/current-students/programs/masters/Master-of-Counselling>.

#### Additional Comments:

Applicants to the Master of Counselling should have reasonable computer literacy as portions of the program are delivered online. Additionally, students are expected to have access to the necessary hardware and a stable internet connection to fully participate in online portions of the program.

### Police Information Check

All successful applicants to the Werklund School of Education Master of Counselling program are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC Requirement" declaration form prior to the start of the program. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than June 30 and students will be required to request a new Police Information Check every year in which they enroll in a practicum course (Educational Psychology 642, 644). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum or Internship. Successful completion of both Practicum and Internship are required for graduation.

Students are obligated to inform the Faculty immediately of any change in the status of their criminal record.

#### Additional Program Information

##### Type

Completion Requirement

#### Additional Comments:

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the [Flexible Grade Option \(CG Grade\)](#) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Advanced Credit

The applicant must make [advanced credit](#) requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

### Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

### Time Limit

The Master of Counselling can be completed in three years of full-time study, but students may take up to six years to complete the degree on a part-time basis.

## Supervisory Assignments

The Academic Program Coordinator serves as students' academic advisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education office by the posted deadline dates for individual awards as noted at [werkslund.ucalgary.ca/graduate-programs/awards](http://werkslund.ucalgary.ca/graduate-programs/awards).

## Overview

### General Program Information

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

Master of Education (MEd) with specialization in School and Applied Child Psychology (SACP), course-based – blended delivery: online and blended courses with some face-to-face/on-campus meeting times at the University of Calgary main campus.

The MEd, SACP is a continuous program with no scheduled breaks.

Applicants considering the field of school psychology should keep in mind that a master's degree is only the first step to obtaining the credentials necessary for professional practice. To practice, graduates register with the regulatory body in their own jurisdiction (i.e. province, state, or territory). Registration is a process independent from completing the MEd program. The registration options available differ depending on: a) the jurisdiction in which graduates reside, b) the level of education required for registration, and c) the regulatory body with which they register. Students are encouraged to review the registration requirements in their own jurisdiction prior to enrolling in the program.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: <mailto:gpe@ucalgary.ca>

Web page URL: <http://werkslund.ucalgary.ca/gpe/>

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website:

<http://www.ucalgary.ca/future-students/graduate/explore-programs/school-applied-child-psychology-master-education-course-based>.

In addition to the Faculty of Graduate Studies requirements, entry requirements include:

- a) A completed bachelor's degree in Education or Psychology with a grade point average of 3.00 (equivalent to a "B" or 70 per cent in many universities) over the courses taken during the last two years of study.
- b) A minimum of 30 units completed in psychology is required prior to application. All prerequisite coursework must be completed with a grade of "B-" or above. Applicants must complete and submit a **Required Courses Table** detailing psychology educational history.
- c) A curriculum vitae and a concise rationale for the application (500 words or less).
- d) Two letters of reference.
- e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the **Academic Communication Certificate** with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

Applicants to the Master of Education in School and Applied Child Psychology should have reasonable computer literacy as portions of the programs are delivered online.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies requirements, the MEd SACP program requires a total of 51 units of course work that includes:

i. SACP specialization courses:

**Complete ALL of the following Courses:**

- EDPS614 - Ethics in Professional Psychology  
**AND** EDPS652 - Academic and Language Assessment  
**AND** EDPS653 - Professional Practice of School Psychology  
**AND** EDPS654 - Neurobiological and Developmental Bases of Learning and Behaviour  
**AND** EDPS681 - Theories and Skills of Counselling  
**AND** EDPS687 - Developmental Psychopathology  
**AND** EDPS689 - Cognitive Assessment  
**AND** EDPS690 - School-based Intervention and Consultation  
**AND** EDPS696 - Social, Emotional, and Behavioural Assessment and Intervention

**Complete at least 1 of the following courses:**

- EDPS650 - Family and Social Bases of Behaviour  
**OR** EDPS688 - Cognitive and Affective Bases of Behaviour

ii. Practicum courses (a minimum of 400 hours):

Note Police Information Check below.

**Complete ALL of the following Courses:**

- EDPS676 - Practicum in Social, Emotional, and Behavioural Assessment  
**AND** EDPS697 - Practicum in Academic and Cognitive Assessment

iii. Research courses:

**Complete ALL of the following Courses:**

- EDPS605 - Psychological Measurement and Statistics  
**AND** EDPS607 - Fundamentals of Measurement

#### Additional Comments:

iv. Final Project Portfolio: **EDPS684 Adv Sem Domains School Psyc** is the students' capstone course and is evaluated as an exit portfolio. Educational Psychology 684 must be taken as the final course (or concurrently with final courses) prior to the internship.

v. Internship (1200 hours): **EDPS698 Pre-Master's Internship**. Note Police Information Check below.

Detailed information on core course requirements can be obtained from Graduate Programs in Education [website](#).

### Police Information Check

All successful applicants to the Werklund School of Education School and Applied Child Psychology program are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will also be required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC Requirement" declaration form prior to the start of the program. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than April 30 and students will be required to request a new Police Information Check every year in which they enroll in a practicum or internship course (Educational Psychology 676, 697, 698). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education during the first summer residency and to the organization hosting the student on or before the first day of the practicum or internship.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum. Successful completion of Practicum is required for graduation.

Students are obligated to inform the Faculty immediately of any change in status of their criminal record.

#### Additional Program Information

##### Type

Completion Requirement

##### Additional Comments:

### Advanced Credit

The applicant must make **Advanced Credit** requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the **Flexible Grade Option (CG Grade)** for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Master of Education School and Applied Child Psychology program can be completed in three years of full-time study but students may take up to six years to complete the degree on a part-time basis.

## Supervisory Assignments

The Academic Program Coordinator serves as students' academic advisor.

### Financial Assistance

#### Type

Completion Requirement

#### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the **Awards and Financial Assistance** section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education office by the posted deadline dates for individual awards as noted at **<https://werklund.ucalgary.ca/graduate-programs/awards>**.

## Overview

### General Program Information

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

The MSc in Educational Psychology, Specialization in School and Applied Child Psychology is delivered on campus.

Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: **<mailto:gpe@ucalgary.ca>**

Web page URL: **<http://werklund.ucalgary.ca/gpe/>**

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: **<http://ucalgary.ca/future->**

In addition to Faculties of Graduate Studies and Education requirements, entry requirements include:

a) Honours degree in Psychology (or equivalent) is preferred; applicants with a degree in Psychology, previous experience in the Psychological field, and a grade point average of 3.00 (equivalent to a "B" or 70 per cent average) over the courses taken during the last two years of study will be considered.

b) Normally, a minimum of 18 units in Educational Psychology or Psychology. This must include:

i. One undergraduate course in statistics

ii. One senior undergraduate Psychology or Educational Psychology course in cognitive-affective bases of behaviour.

iii. One senior undergraduate Psychology or Educational Psychology course in child development or equivalent.

All prerequisite coursework must be completed with a grade of "B-" or above.

c) Curriculum Vitae.

d) Two academic references, one of which is normally from the undergraduate honours supervisor, if applicable.

e) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code 0813.

f) A short statement of intent (approximately 500 words) of your research and professional interest in school psychology (e.g., expected contribution to the field; understanding of school psychology) indicating your reasons for wanting to pursue graduate work in this degree.

Note: A completed [Pre-Admissions Checklist](#) is required as part of the admissions process.

## Program Details

### Simple Requisites

#### Program/Course Requirements

##### Type

##### Completion Requirement

In addition to the Faculty of Graduate Studies and Education requirements, the MSc SACP degree program requires the following:

42 units of coursework that includes:

##### Complete ALL of the following Courses:

- EDPS609 - Research Design in Statistics II  
**AND** EDPS614 - Ethics in Professional Psychology  
**AND** EDPS618 - Multivariate Design and Analysis  
**AND** EDPS650 - Family and Social Bases of Behaviour  
**AND** EDPS651 - Disorders of Learning and Behaviour  
**AND** EDPS653 - Professional Practice of School Psychology  
**AND** EDPS654 - Neurobiological and Developmental Bases of Learning and Behaviour  
**AND** EDPS659 - Academic Assessment and Intervention  
**AND** EDPS665 - Cognitive Assessment and Intervention  
**AND** EDPS669 - Social-Emotional Assessment and Intervention  
**AND** EDPS683 - Consultation in School Psychology  
**AND** EDPS685 - Child and Adolescent Counselling

Practicum (minimum 400 hours):

Complete ALL of the following Courses:

- EDPS662 - School Psychology Practicum I  
**AND** EDPS663 - School Psychology Practicum II

Additional Comments:

## Police Information Check

All successful applicants to the Werklund School of Education Counselling Psychology program are required to provide a current Police Information Check which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC requirement" declaration form prior to the start of the program. Students who are not residents of Calgary must arrange for a Police Information Check through their nearest police service or RCMP detachment in the area where they reside. In order to be considered "current", the Police Information Check must be completed no earlier than June 30, and students will be required to request a new Police Information Check every year in which they enroll in a practicum course (Educational Psychology 640, 647). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum. Successful completion of Practicum is required for graduation.

Students are obligated to inform the Faculty immediately of any change in status of their criminal record.

## Additional Program Information

### Type

Completion Requirement

Additional Comments:

## Advanced Credit

The applicant must make Advanced Credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

## Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

## Credit for Undergraduate Courses

Graduate Programs in Education do not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Master of Science requires two years of full-time study to complete. Maximum time allowed for completion of the Master of Science degree is four years.

## Supervisory Assignments, Research Proposal and Required Examinations

### Type

Completion Requirement

### Additional Comments:

## Supervisory Assignments

An interim advisor is assigned to each first-year student in a thesis-based program. Students are responsible for initiating discussions with potential permanent supervisors and are expected to have finalized supervisory arrangements by their second annual registration.

A supervisory committee, approved by the Graduate Program Director, is required for MSc students choosing the manuscript-based thesis route. Normally, the committee will consist of the supervisor and two members (see – [Supervision](#))

## Research Proposal Requirements

Information on research proposals is available through the interim advisor/supervisor.

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRIS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using [IRIS](#).

## Required Examinations

### Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [Thesis Examinations](#), the program requires:

#### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

#### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education by the posted deadline dates for individual awards as noted at <https://werkland.ucalgary.ca/graduate-programs/awards>.

Graduate Programs in Education also provides assistance for students through teaching assistantships, graduate research scholarships and other scholarships. Application forms and deadline information for these awards can be obtained from Graduate Programs in Education.

## Overview

General Program Information

# UCalgary

Educational Psychology offers specializations in Counselling Psychology (CNPY) and School and Applied Child Psychology (SACP) at master's and doctoral levels. We offer both thesis-based degrees (MSc) and course-based degrees (MEd and MC) at the master's level. Both degree streams prepare students for roles as psychologists and counsellors though further steps (and possibly, courses) will be required to meet professional registration requirements.

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Location: Education Tower, Room 114

Program number: 403.220.5675

Toll free in Canada: 877.623.0292

Fax: 403.282.3005

Email address: [gpe@ucalgary.ca](mailto:gpe@ucalgary.ca)

Web page URL: [werkklund.ucalgary.ca/gpe](http://werkklund.ucalgary.ca/gpe)

## Admissions

### Program Admissions Information

The deadline for the submission of complete applications is available on the Future Students website: [ucalgary.ca/future-students/graduate/explore-programs/school-applied-child-psychology-doctor-philosophy-thesis-based](http://ucalgary.ca/future-students/graduate/explore-programs/school-applied-child-psychology-doctor-philosophy-thesis-based).

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In addition to the Faculty of Graduate Studies and Education requirements, entry requirements include:

a) A completed thesis-based master's degree in School and Applied Child Psychology or equivalent from an approved university, with a minimum grade point average of 3.50 in the Master's degree.

**Note:** If coursework from an applicant's Master's degree is not equivalent to courses from the Master of Science in School and Applied Child Psychology at the University of Calgary, the student may be admitted as a qualifying student (see [G.A.3 Admission Categories](#)). A qualifying student is required to take additional courses within the doctoral program to ensure equivalent training. A qualifying student may take up to 12 units to meet equivalency requirements during the qualifying year. Qualifying status will not be granted for a period exceeding one year.

b) Two senior undergraduate courses or one graduate course (3 units each) with a minimum grade of "B-" in (i) biological bases of behaviour, (ii) cognitive-affective bases of behaviour, (iii) social bases of behaviour, and (iv) individual behaviour.

c) One senior undergraduate or one graduate course (3 units each) with a minimum grade of "B-" in the historical and scientific foundations of general psychology.

**Note:** Students may be considered for admission if up to 12 units of prerequisite courses have not been completed at the time of application. Prerequisite coursework must be completed before the doctoral candidacy examination.

d) Curriculum Vitae.

e) Three references, including two academic references, one of which is normally from the former thesis advisor.

f) For applicants required to present proficiency in English, a minimum TOEFL (Internet-based) score of 97, an IELTS (academic version) overall band score of 7.0 or a CAEL overall score of 70 (with no section less than 70). This requirement can also be met by completing the [Academic Communication Certificate](#) with a minimum grade of "A-" in each course.

The test must have been taken within the last two years. When requesting that official TOEFL test scores are forwarded to the University of Calgary, please indicate institution code **0813**.

g) A concise rationale (500 words or less) for the application including statements about your research and professional interests in school psychology, your previous research experience and the research you would like to pursue in this degree, and specification of a prospective research supervisor from among current faculty.

Note: A completed [Pre-Admissions Checklist](#) is required as part of the admissions process.

## Program Details

## Simple Requisites

### Program/Course Requirements

#### Type

Completion Requirement

In addition to the Faculty of Graduate Studies requirements, the degree program requires the following:

a) A minimum of 33 units of course work at the doctoral level that includes:

**Complete ALL of the following Courses:**

- EDPS712 - Program Evaluation and Consultation I  
**AND** EDPS713 - Program Evaluation and Consultation II  
**AND** EDPS731 - Advanced Clinical Supervision in Applied Psychology  
**AND** EDPS732 - Advanced Seminar in School and Applied Child Psychology  
**AND** EDPS760 - Evidenced-Based Consultation for Intervention  
**AND** EDPS762 - Advanced Neuropsychological Assessment and Intervention  
**AND** EDPS763 - School- and Clinical-based Interventions  
**AND** EDPS764 - Advanced Research Statistics

12 units of Practicum Courses selected from:

**Complete ANY of the following Courses:**

- EDPS761 - Advanced Doctoral Practicum in Clinical Assessment and Supervision  
**AND** EDPS766 - School-Based Practicum

#### Additional Comments:

b) A twelve-month (min. 1600 hours) full-time internship. Note: completion of this requirement will be recorded on the student transcript as a milestone.

First-year students are assigned an interim advisor who will assist with course selection.

PhD students are expected to undertake clients from the Werklund School of Education Integrated Services in Education Clinic and mentor MSc students in the on-campus practicum courses under the guidance of a qualified professional.

### Additional Program Information

#### Type

Completion Requirement

#### Additional Comments:

### Advanced Credit

The applicant must make advanced credit requests as part of the admission process. Credit will not be given for course work taken as part of another completed degree/diploma or for courses taken to bring grade point average to a required level for admission.

### Flexible Grade Option (CG Grade)

Graduate Programs in Education in the Werklund School of Education will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Students may not choose the CG grade for a course taken extra to load.

The use of the CG grade will affect students' eligibility for internal awards.

### Police Information Check

All successful applicants to the Werklund School of Education School and Applied Child Psychology program are required to provide a current Police Information Check (obtained from their nearest police service or RCMP detachment in the area where they reside), which includes a Criminal Record Check and a Vulnerable Sector Search. All successful applicants will be also required to acknowledge the requirement for a Police Information Check by submitting an "Acknowledgment of PIC Requirement" declaration form prior to the start of the program. In order to be considered "current", the Police Information Check must be completed no earlier than June 30 and students will be required to request a new Police Information Check every year in which they enroll in a practicum or internship (Educational Psychology 761 and 766). The original Police Information Check must be presented to the administration in the Graduate Program Office in the Werklund School of Education before the start of Fall Term classes and to the organization hosting the student on or before the first day of the practicum or internship.

Students who are concerned about the presence of a criminal record should contact the police department to discuss the process for eliminating or erasing such a record.

A current and clear Police Information Check is required for all third-party and University of Calgary practicum and internship placements. Failure to present a Police Information Check may result in the student being unable to complete their Practicum or Internship. Successful completion of both Practicum and Internship are required for graduation.

Students are obligated to inform the Faculty immediately of any change in the status of their criminal record.

## Credit for Undergraduate Courses

Graduate Programs in Education does not normally accept undergraduate courses for credit toward graduate degrees.

## Time Limit

The Doctor of Philosophy degree is designed to be completed in four years. Maximum completion time allowed is six years.

### Supervisory Assignments, Research Proposal and Required Examinations

#### Type

Completion Requirement

#### Additional Comments:

### Supervisory Assignments

Students are responsible for initiating discussions with potential permanent supervisors and are expected to have finalized supervisory arrangements by their second annual registration.

### Research Proposal Requirements

Information on research proposals is available through the interim advisor/supervisor.

Ethics approval is required for all research projects involving the use of human subjects, before data collection begins. In order to submit an ethics application, students are required to complete the TCPS2 tutorial and upload the certificate of completion into their Researcher Profile in IRIS. Register on the TCPS2 [website](#).

To initiate the ethics approval process, the student, in consultation with the supervisor, must submit an application to either the Conjoint Faculties Research Ethics Board or the Conjoint Health Research Ethics Board. Applications to the CFREB or CHREB are created and submitted online using IRIS [ucalgary.ca/iriss/](http://ucalgary.ca/iriss/).

### Required Examinations

#### Candidacy

Admission into Candidacy in the Werklund School of Education Graduate Programs: 1) requires that students have abilities to conceptualize, interpret, critique and synthesize comprehensive, substantive knowledge that is relevant to the discipline and practice of educational psychology; and 2) ensures that students have a well-developed plan for their dissertation research, a sound proposal with a well-developed research question and potential for the ability to pursue and complete original independent research at the doctoral level.

In compliance with the Faculty of Graduate Studies [candidacy regulations](#), the requirements for Admission to Candidacy at the Werklund School of Education is a 4 stage process:

- Completion of all course requirements as identified in the calendar;
- Field of study (FoS) written paper;
- A research proposal approved by the Supervisory Committee (recognizing changes may be made after successful completion of exams prior to submission for ethics approval);
- An oral examination of the research proposal;

All Candidacy requirements must be completed within 28 months of the start of the program.

For further information, please consult the Graduate Programs in Education [website](#).

## Thesis

The doctoral thesis is the focus of the degree program. In consultation with the supervisor, the student should formulate an appropriate thesis topic as early as possible in the program because the thesis proposal affects the choice and number of courses needed in order to complete the program.

## Thesis Examination

In addition to the Faculty of Graduate Studies regulations for [thesis examinations](#), the program requires:

### *Scheduling of the Examination*

All members of the Supervisory Committee must have reviewed the student's draft thesis document before an examination can be scheduled.

### *Composition of the Committee*

The Internal Examiner may be internal to the home program.

## Financial Assistance

### Type

Completion Requirement

### Additional Comments:

Financial assistance may be available to qualified students. For information on awards, see the [Awards and Financial Assistance](#) section of this Calendar.

Students applying for scholarships for September admission must submit their scholarship applications to the Graduate Programs in Education office by the posted deadline dates for individual awards as noted at [werklund.ucalgary.ca/graduate-programs/awards](https://werklund.ucalgary.ca/graduate-programs/awards).

Graduate Programs in Education also provides assistance for students through teaching assistantships, graduate research scholarships and other scholarships. Application forms and deadline information for these awards can be obtained from Graduate Programs in Education.

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway

# UCalgary

- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Early Childhood Education, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Early Childhood Education (K-12) Teachable Subject

**Earn at least 24 credits from the following:**

- Education 207
- Education 213
- 3 units from courses labelled Art, Art History, Drama, Music or Music Performance
- 6 units from courses labelled Math and/or Astrophysics, Astronomy, Biochemistry, Biological Sciences, Chemistry, Cellular, Molecular and Microbial Biology, Computer Science, Ecology, Environmental Science, Geology, Geophysics, Physics, Plant Biology, or Zoology
- 3 units from the courses labelled Psychology (PSYC) or Education 309
- 6 units from English Literature

Inclusive of the courses above, 9 units must be at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

**Completion Requirement**

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

## Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Early Childhood Education, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

<b>Program Requirements</b>
<b>Type</b>
Completion Requirement
57 units in Education courses including: <b>Earn at least 57 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 201</li><li>• Education 420, 427, 430, 435</li><li>• Education 445, 450, 456</li><li>• Education 521, 525, 530</li><li>• Education 551, 556</li><li>• One of 561, 562, 563, 564, 565, 566, 567, 568, or 569</li><li>• Education 440, 465, 540, 560</li></ul>
30 units in courses in Teachable Subject Areas including: <b>Fulfill ALL of the following requirements:</b>
Education Teachable Subject <b>Earn at least 6 credits from the following:</b>

- Education 460
- Education 535

AND

Early Childhood Education (K-12) Teachable Subject

Earn at least 24 credits from the following:

- Education 207
- Education 213
- 3 units from courses labelled Art, Art History, Drama, Music or Music Performance
- 6 units from courses labelled Math and/or Astrophysics, Astronomy, Biochemistry, Biological Sciences, Chemistry, Cellular, Molecular and Microbial Biology, Computer Science, Ecology, Environmental Science, Geology, Geophysics, Physics, Plant Biology, or Zoology
- 3 units from the courses labelled Psychology (PSYC) or Education 309
- 6 units from English Literature

Inclusive of the courses above, 9 units must be at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 English Language Learners, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

AND

English Language Learners (K-12) Teachable Subject

**Earn at least 24 credits from the following:**

- Linguistics 201, 301 and 316
- 15 units in Linguistics (LING) or English (ENGL) of which 9 units are at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd

- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 English Language Learners, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

English Language Learners (K-12) Teachable Subject

Students must complete 24 units in one of the following languages, with a minimum of 18 units taught in the selected language:

**Earn at least 24 credits from the following:**

- Linguistics 201, 301 and 316
- 15 units in Linguistics (LING) or English (ENGL) of which 9 units are at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

Additional Comments:

## Overview

### General Program Information

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community based) in English Language Arts, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

AND

English Language Arts (K-12) Teachable Subject

Earn at least 24 credits from the following:

- 24 units labelled English (ENGL), of which 9 units are at the 300 level or above.

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

Additional Comments:

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

Additional Comments:

## Overview

### General Program Information

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

# UCalgary

Additionally, students may choose to add an Honours designation to their degree.

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community based) English Language Arts, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

Earn at least 57 credits from the following:

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556

- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

English Language Arts (K-12) Teachable Subject

**Earn at least 24 credits from the following:**

- 24 units labelled English (ENGL), of which 9 units are at the 300 level or above.

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

## Degree Options

Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Mathematics, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

##### Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

AND

Mathematics (K-12) Teachable Subject

**Earn at least 24 credits from the following:**

- 24 units labelled Mathematics (MATH), of which 9 units are at the 300 level or above.

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: **3. Werklund School of Education Regulations.**

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway

- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Mathematics, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Mathematics (K-12) Teachable Subject

**Earn at least 24 credits from the following:**

- 24 units labelled Mathematics (MATH), of which 9 units are at the 300 level or above.

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Complete ALL of the following Requirement Sets:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Social Studies - Revitalization of Indigenous Languages, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Social Studies - Revitalization of Indigenous Languages (K-12) Teachable Subject

Earn at least 24 credits from the following:

- 6 units of Canadian History
- 6 units of Indigenous Studies
- Education 313
- 6 units from courses labelled Indigenous Languages
- 3 units from Anthropology, Archaeology, Canadian Studies, Geography, Gender and Sexuality Studies, Indigenous Studies, Law and Society, Political Science, Sociology

Inclusive of the courses above, 9 units must be at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Complete ALL of the following Requirement Sets:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: **3. Werklund School of Education Regulations.**

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete ***optional*** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

## UCalgary

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Social Studies - Revitalization of Indigenous Languages, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456

- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Social Studies - Revitalization of Indigenous Languages (K-12) Teachable Subject

**Earn at least 24 credits from the following:**

- 6 units of Canadian History
- 6 units of Indigenous Studies
- Education 313
- 6 units from courses labelled Indigenous Languages
- 3 units from Anthropology, Archaeology, Canadian Studies, Geography, Gender and Sexuality Studies, Indigenous Studies, Law and Society, Political Science, Sociology

Inclusive of the courses above, 9 units must be at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Science, see [3.1 Admission](#).

## Program Details

### Simple Requisites

### Program Requirements

#### Type

Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Science (K-12) Teachable Subject

**Earn at least 24 credits from the following:**

- 24 units labelled Astrophysics, Astronomy, Biochemistry, Biological Sciences, Chemistry, Cellular, Molecular and Microbial Biology, Computer Science, Ecology, Environmental Science, Geology, Geophysics, Physics, Plant Biology, or Zoology, of which 9 units are at the 300 level or above.

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Science, see [3.1 Admission](#).

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

### Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Science (K-12) Teachable Subject

**Earn at least 24 credits from the following:**

- 24 units labelled Astrophysics, Astronomy, Biochemistry, Biological Sciences, Chemistry, Cellular, Molecular and Microbial Biology, Computer Science, Ecology, Environmental Science, Geology, Geophysics, Physics, Plant Biology, or Zoology, of which 9 units are at the 300 level or above.

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [\*\*3. Werklund School of Education Regulations.\*\*](#)

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 Second Languages, see [3.1 Admission](#).

## Program Details

### Simple Requisites

### Program Requirements

#### Type

Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569

- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Second Languages (K-12) Teachable Subject

Students must complete 24 units in one of the following languages, with a minimum of 18 units taught in the selected language:

**Earn at least 24 credits from the following:**

- Chinese 353 and 21 additional units in Chinese, of which 6 units are at the 400 level
- 24 units in German, of which 6 units must be taught in German at the 400 level
- Japanese 331 and 21 additional units in Japanese, of which 3 units are at the 400 level
- Russian 332 and 334, and an additional 18 units in Russian
- Arabic Language and Muslim Cultures 331 and 21 additional units in Arabic Language and Muslim Cultures

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours

- Werklund School of Education - Minor Fields and Embedded Certificates

Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 Second Languages, see [3.1 Admission](#).

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

##### Earn at least 57 credits from the following:

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

##### Fulfill ALL of the following requirements:

##### Earn at least 6 credits from the following:

- Education 460
- Education 535

AND

##### Second Languages (K-12) Teachable Subject

Students must complete 24 units in one of the following languages, with a minimum of 18 units taught in the selected language:

##### Earn at least 24 credits from the following:

- Chinese 353 and 21 additional units in Chinese, of which 6 units are at the 400 level
- 24 units in German, of which 6 units must be taught in German at the 400 level
- Japanese 331 and 21 additional units in Japanese, of which 3 units are at the 400 level
- Russian 332 and 334, and an additional 18 units in Russian
- Arabic Language and Muslim Cultures 331 and 21 additional units in Arabic Language and Muslim Cultures

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

##### Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

##### Earn at least 15 credits from the following:

## UCalgary

- Elective Courses

### Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

### Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

### Degree Options

#### Type

Completion Requirement

### Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Registration and Courses

### Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Social Studies, see [3.1 Admission.](#)

## Program Details

### Simple Requisites

### Program Requirements

**Type**

**Completion Requirement**

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Social Studies (K-12) Teachable Subject

Students must complete 24 units of the below required courses, of which 9 units must be at the 300 level or above:

**Earn at least 24 credits from the following:**

- 3 units labelled History
- 3 units labelled Geography
- 18 units in a range of the following courses labelled: Anthropology, Archaeology, Canadian Studies, Economics, Geography, Gender and Sexuality Studies, Global Development Studies, History, Indigenous Studies, Law and Society, Political Science, Psychology, Sociology, Religious Studies, and/or Urban Studies

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [\*\*3. Werklund School of Education Regulations.\*\*](#)

## Degree Options

### Type

Completion Requirement

### Degree Options

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in K-12 (Community Based) Social Studies, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education.

Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term

- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

##### Earn at least 57 credits from the following:

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

##### Fulfill ALL of the following requirements:

##### Education Teachable Subject

##### Earn at least 6 credits from the following:

- Education 460
- Education 535

##### AND

##### Social Studies (K-12) Teachable Subject

Students must complete 24 units of the below required courses, of which 9 units must be at the 300 level or above:

##### Earn at least 24 credits from the following:

- 3 units labelled History
- 3 units labelled Geography
- 18 units in a range of the following courses labelled: Anthropology, Archaeology, Canadian Studies, Economics, Geography, Gender and Sexuality Studies, Global Development Studies, History, Indigenous Studies, Law and Society, Political Science, Psychology, Sociology, Religious Studies, and/or Urban Studies

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

##### Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

## Degree Options

### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

## Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Early Childhood Education, see **3.1 Admission**.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Early Childhood Education (Early Years) Teachable Subject

**Earn at least 24 credits from the following:**

- Art 309 or 342
- Mathematics 205
- Education 309
- Science 331
- English 303 and 396
- 6 units from the Faculties of Arts, Science or Kinesiology

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

**Completion Requirement**

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

**Program Admissions Information**

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Early Childhood Education, see **3.1 Admission**.

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Early Childhood Education (Early Years) Teachable Subject

**Earn at least 24 credits from the following:**

- Art 309 or 342
- Mathematics 205
- Education 309
- Science 331

- English 303 and 396
- 6 units from the Faculties of Arts, Science or Kinesiology

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd

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- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Fine Arts, see **3.1 Admission**.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Fine Arts (Elementary) Teachable Subject

**Earn at least 24 credits from the following:**

- Art 309 and 342
- 9 units from Music 209, 213, 232, 307, or Music Education 331, 341, 343, 413, 415, 417, 419
- Education 307
- Drama 358

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

### Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Fine Arts, see [3.1 Admission.](#)

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours

program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

<b>Program Requirements</b>
<b>Type</b>
Completion Requirement
57 units in Education courses including: <b>Earn at least 57 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 201</li><li>• Education 420, 427, 430, 435</li><li>• Education 445, 450, 456</li><li>• Education 521, 525, 530</li><li>• Education 551, 556</li><li>• One of 561, 562, 563, 564, 565, 566, 567, 568, or 569</li><li>• Education 440, 465, 540, 560</li></ul>
30 units in courses in Teachable Subject Areas including: <b>Fulfill ALL of the following requirements:</b>
Education Teachable Subject <b>Earn at least 6 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 460</li><li>• Education 535</li></ul>
<b>AND</b>
Fine Arts (Elementary) Teachable Subject

Earn at least 24 credits from the following:

- Art 309 and 342
- 9 units from Music 209, 213, 232, 307, or Music Education 331, 341, 343, 413, 415, 417, 419
- Education 307
- Drama 358

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary English Language Arts, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

English Language Arts (Elementary) Teachable Subject

**Earn at least 24 credits from the following:**

- English 253.01 or 253.02 or 253.03 or 253.04 or 203
- English 265, 303, 305 and 307
- English 372 or 396 or 520
- Education 311
- 3 units in English at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

### Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

### Degree Options

#### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

## Program Admission Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary English Language Arts, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

<b>Program Requirements</b>
<b>Type</b>
Completion Requirement
57 units in Education courses including: <b>Earn at least 57 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 201</li><li>• Education 420, 427, 430, 435</li><li>• Education 445, 450, 456</li><li>• Education 521, 525, 530</li><li>• Education 551, 556</li><li>• One of 561, 562, 563, 564, 565, 566, 567, 568, or 569</li><li>• Education 440, 465, 540, 560</li></ul>
30 units in courses in Teachable Subject Areas including: <b>Fulfill ALL of the following requirements:</b>
Education Teachable Subject <b>Earn at least 6 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 460</li><li>• Education 535</li></ul>

AND

English Language Arts (Elementary) Teachable Subject

Earn at least 24 credits from the following:

- English 253.01 or 253.02 or 253.03 or 253.04 or 203
- English 265, 303, 305 and 307
- English 372 or 396 or 520
- Education 311
- 3 units in English at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

# UCalgary

## General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Mathematics, see [3.1 Admission](#).

## Program Details

### Simple Requisites

<b>Program Requirements</b>
<b>Type</b>
Completion Requirement
57 units in Education courses including: <b>Earn at least 57 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 201</li><li>• Education 420, 427, 430, 435</li><li>• Education 445, 450, 456</li><li>• Education 521, 525, 530</li><li>• Education 551, 556</li><li>• One of 561, 562, 563, 564, 565, 566, 567, 568, or 569</li><li>• Education 440, 465, 540, 560</li></ul>
30 units in courses in Teachable Subject Areas including: <b>Fulfill ALL of the following requirements:</b>
Education Teachable Subject <b>Earn at least 6 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 460</li><li>• Education 535</li></ul>
<b>AND</b>
Mathematics (Elementary) Teachable Subject <b>Earn at least 24 credits from the following:</b> <ul style="list-style-type: none"><li>• Mathematics 205 and 211</li><li>• One of Mathematics 249 or 265 or 275</li></ul>

- One of Mathematics 271 or 273
- Statistics 205
- Education 305
- 6 additional units chosen from Mathematics, Statistics, Actuarial Science, or Data Science, of which 3 units are at the 300 level or above. Students are highly recommended to take Data Science 211

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

## Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

## Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway

- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Mathematics, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Mathematics (Elementary) Teachable Subject

**Earn at least 24 credits from the following:**

- Mathematics 205 and 211
- One of Mathematics 249 or 265 or 275
- One of Mathematics 271 or 273
- Statistics 205
- Education 305
- 6 additional units chosen from Mathematics, Statistics, Actuarial Science, or Data Science, of which 3 units are at the 300 level or above. Students are highly recommended to take Data Science 211

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

Complete ANY of the following Requirement Sets:

- Werklund School of Education - Minor Fields and Embedded Certificates

Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Social Studies - Revitalization of Indigenous Languages, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

Earn at least 6 credits from the following:

- Education 460
- Education 535

AND

Earn at least 24 credits from the following:

- Canadian Studies 201
- History 211 or 213
- Indigenous Studies 201
- History 345 or Anthropology 346
- Indigenous Languages 301 and 303
- Education 313
- 3 units from the Field of International Indigenous Studies, groupings labelled Core Courses or Canadian Focus

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

#### Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

#### Degree Options

##### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

#### Additional Comments:

## Overview

# UCalgary

## General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Social Studies - Revitalization of Indigenous Languages, see [3.1 Admission](#).

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

### Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

Program Requirements
Type
Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Social Studies – Revitalization of Indigenous Languages (Elementary) Teachable Subject

**Earn at least 24 credits from the following:**

- Canadian Studies 201
- History 211 or 213
- Indigenous Studies 201
- History 345 or Anthropology 346
- Indigenous Languages 301 and 303
- Education 313
- 3 units from the Field of International Indigenous Studies, groupings labelled Core Courses or Canadian Focus

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations](#).

**Degree Options****Type****Completion Requirement****Degree Options**

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

**Program Admissions Information**

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Science, see [3.1 Admission](#).

## Program Details

**Simple Requisites****Program Requirements****Type****Completion Requirement**

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201

- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Science (Elementary) Teachable Subject

**Earn at least 24 credits from the following:**

- Science 331
- Astronomy 207
- Geology 209 or Earth 209
- Mathematics 205
- 12 additional units in courses labelled Astrophysics, Astronomy, Biochemistry, Biological Sciences, Chemistry, Cellular, Molecular and Microbial Biology, Computer Science, Ecology, Environmental Science, Geology, Geophysics, Physics, Plant Biology, or Zoology, of which 6 units are at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Complete ALL of the following Requirement Sets:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

## Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Science, see [3.1 Admission](#).

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education.

Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

### Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Science (Elementary) Teachable Subject

**Earn at least 24 credits from the following:**

- Science 331
- Astronomy 207
- Geology 209 or Earth 209
- Mathematics 205
- 12 additional units in courses labelled Astrophysics, Astronomy, Biochemistry, Biological Sciences, Chemistry, Cellular, Molecular and Microbial Biology, Computer Science, Ecology, Environmental Science, Geology, Geophysics, Physics, Plant Biology, or Zoology, of which 6 units are at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)

- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

**Program Admissions Information**

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Social Studies, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

##### Earn at least 57 credits from the following:

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

##### Fulfill ALL of the following requirements:

Education Teachable Subject

##### Earn at least 6 credits from the following:

- Education 460
- Education 535

AND

Social Studies (Elementary) 24 units

##### Earn at least 24 credits from the following:

- Canadian Studies 201
- History 211 and 213
- Geography 254
- Education 313
- 9 additional units in a range of disciplinary areas (African Studies 302, Anthropology, Archaeology, Communication and Culture, Canadian Studies, Economics, Geography, Gender and Sexuality Studies, Global Development Studies, History, Indigenous Studies, Law and Society, Political Science, Psychology, Sociology, Religious studies, Urban Studies), of which 6 units are at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

##### Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations](#).

**Degree Options**

**Type**

Completion Requirement

**Degree Options**

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

**Program Admissions Information**

For Admission into the 4 year Bachelor of Education (BEd) in Elementary Social Studies, see [3.1 Admission](#).

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education.

Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

### Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least undefined credits from the following:**

- Education 460
- Education 535

**AND**

Social Studies (Elementary) 24 units

**Earn at least 24 credits from the following:**

- Canadian Studies 201
- History 211 and 213
- Geography 254
- Education 313
- 9 additional units in a range of disciplinary areas (African Studies 302, Anthropology, Archaeology, Communication and Culture, Canadian Studies, Economics, Geography, Gender and Sexuality Studies,

Global Development Studies, History, Indigenous Studies, Law and Society, Political Science, Psychology, Sociology, Religious studies, Urban Studies), of which 6 units are at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd

# UCalgary

- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Science - Biology, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Science – Biology (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Biology 241, 243, 305, 309, 311, 331 and 371
- 3 additional units in the Field of Biological Sciences at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)

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- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

### Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

### Degree Options

#### Type

Completion Requirement

#### Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

### Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Science - Biology, see [3.1 Admission.](#)

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Science – Biology (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Biology 241, 243, 305, 309, 311, 331 and 371
- 3 additional units in the Field of Biological Sciences at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd

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- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Fine Arts - Drama, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Fine Arts - Drama (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Drama 209 and 210
- 9 units from Drama 223, 225, 242, or 243
- Education 307
- 6 units from Drama as follows: Drama 368 and 468, or Drama 345 and 347, or Drama 346 and 348, or Drama 365 and 367

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Complete ALL of the following Requirement Sets:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations](#).

**Degree Options****Type**

Completion Requirement

**Degree Options**

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

**Program Admissions Information**

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Fine Arts - Drama, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

<b>Program Requirements</b>
<b>Type</b>
Completion Requirement
57 units in Education courses including: <b>Earn at least 57 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 201</li><li>• Education 420, 427, 430, 435</li><li>• Education 445, 450, 456</li><li>• Education 521, 525, 530</li><li>• Education 551, 556</li><li>• One of 561, 562, 563, 564, 565, 566, 567, 568, or 569</li><li>• Education 440, 465, 540, 560</li></ul>
30 units in courses in Teachable Subject Areas including: <b>Fulfill ALL of the following requirements:</b>
Education Teachable Subject <b>Earn at least 6 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 460</li><li>• Education 535</li></ul>
<b>AND</b>

Fine Arts - Drama (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Drama 209 and 210
- 9 units from Drama 223, 225, 242, or 243
- Education 307
- 6 units from Drama as follows: Drama 368 and 468, or Drama 345 and 347, or Drama 346 and 348, or Drama 365 and 367

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Complete ALL of the following Requirement Sets:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

**General Program Information**

Location: Education Tower 230

Phone: 403.220.5639

# UCalgary

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary English Language Arts, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

##### Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

##### English Language Arts (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- English 253.01 or 253.02 or 253.03 or 253.04 or 203
- English 265, 303, 305, 307 and 372

- One of English 311, 376 or 396 or 520
- 3 units in English at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

## Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

## Degree Options

### Type

### Completion Requirement

#### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

## Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary English Language Arts, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

<b>Program Requirements</b>
<b>Type</b>
Completion Requirement
57 units in Education courses including: <b>Earn at least 57 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 201</li><li>• Education 420, 427, 430, 435</li><li>• Education 445, 450, 456</li><li>• Education 521, 525, 530</li><li>• Education 551, 556</li><li>• One of 561, 562, 563, 564, 565, 566, 567, 568, or 569</li><li>• Education 440, 465, 540, 560</li></ul>
30 units in courses in Teachable Subject Areas including: <b>Fulfill ALL of the following requirements:</b>
Education Teachable Subject <b>Earn at least 6 credits from the following:</b>

- Education 460
- Education 535

AND

English Language Arts (Secondary) Teachable Subject

Earn at least 24 credits from the following:

- English 253.01 or 253.02 or 253.03 or 253.04 or 203
- English 265, 303, 305, 307 and 372
- One of English 311, 376 or 396 or 520
- 3 units in English at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

# UCalgary

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Mathematics, see [3.1 Admission](#).

## Program Details

### Simple Requisites

<b>Program Requirements</b>
<b>Type</b>
Completion Requirement
57 units in Education courses including: <b>Earn at least 57 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 201</li><li>• Education 420, 427, 430, 435</li><li>• Education 445, 450, 456</li><li>• Education 521, 525, 530</li><li>• Education 551, 556</li><li>• One of 561, 562, 563, 564, 565, 566, 567, 568, or 569</li><li>• Education 440, 465, 540, 560</li></ul>
30 units in courses in Teachable Subject Areas including: <b>Fulfill ALL of the following requirements:</b>
Education Teachable Subject <b>Earn at least 6 credits from the following:</b> <ul style="list-style-type: none"><li>• Education 460</li><li>• Education 535</li></ul>
<b>AND</b>
Mathematics (Secondary) Teachable Subject <b>Earn at least 24 credits from the following:</b>

- Mathematics 205 and 211
- One of Mathematics 249 or 265 or 275
- One of Mathematics 271 or 273
- Statistics 205
- Education 305
- 6 additional units chosen from Mathematics, Statistics, Actuarial Science, or Data Science, of which 3 units are at the 300 level or above. Students are highly recommended to take Data Science 211

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

## Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

## Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd

- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Mathematics, see [3.1 Admission](#).

## Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Mathematics (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Mathematics 205 and 211
- One of Mathematics 249 or 265 or 275
- One of Mathematics 271 or 273
- Statistics 205
- Education 305
- 6 additional units chosen from Mathematics, Statistics, Actuarial Science, or Data Science, of which 3 units are at the 300 level or above. Students are highly recommended to take Data Science 211

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Sciences - Physics, see [3.1 Admission](#).

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

Earn at least 6 credits from the following:

- Education 460
- Education 535

AND

Science – Physics (Secondary) Teachable Subject

Earn at least 24 credits from the following:

- Physics 211 or 221
- Physics 223, 229, 321, 323
- 9 units from Physics 303, 341, 371, 397, or Astrophysics 305
- Students must also complete Mathematics 211 or 213 Mathematics 249 or 265, or 275 Mathematics 267 or 277

The above Mathematics courses will fulfill the Foundational Science and Elective requirements.

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

Earn at least 18 credits from the following:

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

#### Additional Comments:

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

#### Degree Options

##### Type

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

#### Additional Comments:

## Overview

General Program Information

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## General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werkklund.ucalgary.ca/undergraduate-programs>

The Werkklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Sciences - Physics, see [3.1 Admission](#).

## Admission into Honours

Continuing Werkklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education.

Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

## Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

Earn at least 57 credits from the following:

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Science – Physics (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Physics 211 or 221
- Physics 223, 229, 321, 323
- 9 units from Physics 303, 341, 371, 397, or Astrophysics 305
- Students must also complete Mathematics 211 or 213 Mathematics 249 or 265, or 275 Mathematics 267 or 277

The above Mathematics courses will fulfill the Foundational Science and Elective requirements.

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

## Degree Options

### Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Social Studies, see [3.1 Admission.](#)

## Program Details

### Simple Requisites

### Program Requirements

#### Type

Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556

- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Social Studies (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Canadian Studies 201
- History 211 and 213
- Geography 254
- Education 313
- 9 additional units in a range of disciplinary areas (African Studies 302, Anthropology, Archaeology, Communication and Culture, Canadian Studies, Economics, Geography, Gender and Sexuality Studies, Global Development Studies, History, Indigenous Studies, Law and Society, Political Science, Psychology, Sociology, Religious studies, Urban Studies), of which 6 units are at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

Additional Comments:

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Social Studies, see [3.1 Admission](#).

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

### Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework
- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Social Studies (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Canadian Studies 201
- History 211 and 213
- Geography 254
- Education 313
- 9 additional units in a range of disciplinary areas (African Studies 302, Anthropology, Archaeology, Communication and Culture, Canadian Studies, Economics, Geography, Gender and Sexuality Studies, Global Development Studies, History, Indigenous Studies, Law and Society, Political Science, Psychology, Sociology, Religious studies, Urban Studies), of which 6 units are at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

Earn at least 15 credits from the following:

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

Type

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ALL of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Fine Arts Education - Visual Studies, see [3.1 Admission.](#)

## Program Details

Simple Requisites

Program Requirements

**Type**

**Completion Requirement**

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Fine Arts Education – Visual Studies (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Art 231, 233, 251, 309
- Art 342
- Education 307
- 9 units in Art (ART) at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)
- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

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## Type

Completion Requirement

### Degree Options

To complete **optional** enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Honours
- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**

## Overview

### General Program Information

Location: Education Tower 230

Phone: 403.220.5639

Email: [upe@ucalgary.ca](mailto:upe@ucalgary.ca)

Website: <https://werklund.ucalgary.ca/undergraduate-programs>

The Werklund School of Education offers five Bachelor of Education (BEd) undergraduate degree pathways:

- Four-Year BEd
- Five-Year Concurrent BEd
- Fall-start on-campus pathway
- Two-Year After-Degree BEd for holders of approved degrees

Additionally, students may choose to add an Honours designation to their degree.

## Admissions

### Program Admissions Information

For Admission into the 4 year Bachelor of Education (BEd) in Secondary Fine Arts Education - Visual Studies, see [3.1 Admission](#).

### Admission into Honours

Continuing Werklund School of Education Bachelor of Education students pursuing any pathway may apply for the Honours program.

Applicants must meet the admission requirements listed below, and must submit a Change of Program request by February 1st. A supplementary application package will be sent to Change of Program applicants by Undergraduate Programs in Education. Applicants must return this package by March 15th. Admission into the program will be for the subsequent Spring term.

Prior to application, students should review when Honours coursework takes place, as is detailed in the Program Details tab.

### Admission Requirements

Applicants to the BEd (Honours) program must meet the following criteria:

- Be in the process of completing, or have completed, all 400-level Education (EDUC) coursework
- Have completed all other mandated coursework, aside from the 500-level Education (EDUC) courses or open options in the Four-Year and Concurrent pathways, as is detailed in Application, above
- Present a minimum 3.30 GPA based on the 30 most recently completed units up to the Fall Term preceding desired intake into the Honours Program
- If admitted, have maintained a 3.30 GPA in the Winter Term immediately preceding the Honours Program intake term
- Present a minimum grade of "B", or 3.00 GPA, in all 400-level Education (EDUC) coursework

- In addition to meeting the minimum grade point averages, applications are evaluated on the basis of the documents submitted in the admission application package

Meeting the minimum requirements is not a guarantee for admission. The faculty reserves the right to limit the number of students admitted into the BEd (Honours) program. Students on academic probation are not eligible for the BEd (Honours) program.

## Program Details

### Simple Requisites

#### Program Requirements

##### Type

##### Completion Requirement

57 units in Education courses including:

**Earn at least 57 credits from the following:**

- Education 201
- Education 420, 427, 430, 435
- Education 445, 450, 456
- Education 521, 525, 530
- Education 551, 556
- One of 561, 562, 563, 564, 565, 566, 567, 568, or 569
- Education 440, 465, 540, 560

30 units in courses in Teachable Subject Areas including:

**Fulfill ALL of the following requirements:**

Education Teachable Subject

**Earn at least 6 credits from the following:**

- Education 460
- Education 535

**AND**

Fine Arts Education – Visual Studies (Secondary) Teachable Subject

**Earn at least 24 credits from the following:**

- Art 231, 233, 251, 309
- Art 342
- Education 307
- 9 units in Art (ART) at the 300 level or above

*\*Maximum of 6 units of Teachable Subject Area courses may have a "D" or "D+" grade*

18 units in required Non-Education Foundational Courses Non-Education Foundational Courses

**Earn at least 18 credits from the following:**

- Course in English or French Literature (3 units)
- Course in Creative and Performing Arts (3 units)
- Course in Psychology (3 units)
- Course in Physical Education or Health and Wellness (3 units)

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- Course in Sciences (3 units)
- Course in Canadian Studies (3 units)

15 units in elective courses

**Earn at least 15 credits from the following:**

- Elective Courses

Honours Requirements

In addition to the requirements for the Four-Year BEd (above), BEd (Honours) students must successfully complete:

**Complete ALL of the following Requirement Sets:**

- BEd Honours Program

**Additional Comments:**

For other regulations related to the Werklund School of Education, see: [3. Werklund School of Education Regulations.](#)

**Degree Options**

**Type**

Completion Requirement

Degree Options

To complete *optional* enhancement(s) to this degree program, refer to:

**Complete ANY of the following Requirement Sets:**

- Werklund School of Education - Minor Fields and Embedded Certificates

**Additional Comments:**