

Senate Graduate Council

Open Session

April 16, 2026

10:00 a.m. - 11:30 a.m.

Needles Hall

NH 3318

Waterloo Campus

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2026 04 16 Senate Graduate Council Meeting Book

AGENDA

	1. Governance Resources		
	1.1. Link to Governance Resources		
10:00 a.m.	2. Approval of the Agenda		
	2.1. Conflict of Interest		
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	2.3. Business Arising from the Minutes	Information	
	2.3.1. Senate Alternative Credentials Committee Updates	Information	4
	3. Consent Agenda		
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	3.2. Curricular Submissions		
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	3.4. Graduate Studies Academic Calendar Updates	Information	391
	4. Regular Agenda		
10:05 a.m.	5. Chair's Remarks [Wan]	Information	
10:10 a.m.	6. Curricular Submissions		
	6.1. Faculty of Arts	Decision	396
	6.2. Faculty of Engineering	Decision	429
	6.3. Graduate Studies Academic Calendar Updates	Decision	444
10:30 a.m.	7. EdTech Project and Fee Proposal [Fluttert & Gilbertson]		
	7.1. EdTech Project and Fee Proposal	Discussion	448
10:55 a.m.	8. Relationship between Supervisors and Graduate Students [Barrett]		
	8.1. Relationship between Supervisors and Graduate Students	Discussion	453
11:20 a.m.	9. Items Removed from the Consent Agenda		
11:25 a.m.	10. Other Business		
11:30 a.m.	11. Adjournment		
	The next SGC meeting will be held on May 25, 2026.		

For Approval

Open Session

To: Senate Graduate Council

From: Tony Ly
Governance Officer

Date of Meeting: April 16, 2026

Agenda Item: **2. Approval of the Agenda**

2.1. Conflict of Interest

Members are invited to declare any conflicts related to the open session agenda at this time. Should a conflict of interest arise during discussion, members are asked to declare a conflict of interest as it arises. Information and guidance on conflicts of interest is provided on the Secretariat [website](#).

The Secretariat can provide guidance regarding potential conflicts of interest in advance of or during the meeting.

2.2. Approval of the Agenda and Approval of the Consent Agenda

Motion: To approve the agenda as presented/amended, and to approve or receive for information the items on the consent agenda, listed as items 3.1 – 3.4.

Members wishing to have an item removed from consent to the regular agenda are asked to contact the Secretariat in advance of the meeting. Members may also request to have items moved to the regular agenda immediately prior to the approval of the agenda.

2.3. Business Arising from the Minutes

Senate Alternative Credentials Committee Updates

An update about the Senate Alternative Credentials Committee was provided in a memo included in the agenda package.

Memorandum

To: SUC, SGC

Subject: Senate discussion of Senate Alternative Credentials Committee recommendation from SUC and SGC

From: David DeVidi, AVPA

Colleagues:

The SACC motion was on the agenda at the March Senate meeting. As often happens, the meeting was running far behind the anticipated timelines. As a result, the President ruled that everyone who had a question of comment would ask/comment, and only then would there be responses. As a result, several people asked the same or similar questions. Because it was taking a long time to get through these questions, the President deferred the vote to the next time SACC appeared on the Senate agenda.

I think that all of the questions are readily answered in a way that should be persuasive to Senators. I have included the questions and my answers below for the information of SUC and SGC members.

There was also a Senator who suggested that the concerns raised by SUC and SGC when we considered a proposal for a Senate Academic Innovation Committee *also* applied to the SACC proposal that SUC and SGC had recommended to Senate at around the same time. I have not provided an answer to this suggestion because I think it should seem manifestly untrue to the SUC and SGC members who attended the three discussions of the SACC idea a SUC and SGC and the discussions of the Senate Academic Innovation Committee proposal.

Here are the questions that were asked and my replies:

What is the scope of SACC approvals? As stated in the SACC Terms of Reference, the scope is “to approve, on behalf of Senate, alternative credentials, including microcredentials.” As specified in the “Mandate” section, “alternative” is essentially synonymous with “non-credit”, where “for credit” includes all courses and milestones that can count towards degrees.

All for credit credentials, from milestones to courses to options to minors to degree programs must be approved by Senate or (for courses, for instance) by SUC or SGC on behalf of Senate.

What about “stacking” of non-credit credentials into credits? This can only happen *if there is a credit credential (or part of a program leading to a credential, like a course) to “stack” into*. That is, if the leadership of a Waterloo program decides that certain non-credit credentials ought to count as equivalent to a for credit course (e.g., so that someone can count it towards a degree), *they can only do so if the course already “exists” in the sense of being approved by SUC or SGC and appearing in the relevant academic calendar*. SACC will not be approving the for credit offering and will not be the body determining equivalence to any for credit offering.

While it is not yet formalized, the “stacking” process proposed in the Credentials Framework report vests the decision about when non-credit credentials are sufficient, from an academic point of

view, to count as equivalent to a credit *with the academic program leadership* of the unit that offers the course. This is exactly parallel to how decisions are made about which credit courses offered by other institutions ought to count as equivalent to a Waterloo credit course.

Will SACC be approving “programs”? Like most vocabulary in this area, definitions are slippery. As noted above, *SACC will not approve for credit programs*, which includes things like programs leading to Bachelor, Masters or Doctoral degrees, minors, options, etc.

However, another appropriate use of the word “program,” the one recommended for use in the Credentials Framework report, is “a sequence of courses or milestones the successful completion of which results in the awarding of a credential.” In this sense SACC can approve a program, *if the credential is a non-credit credential*.

An example is the Sustainable Aviation Certificate, offered through the Waterloo Institute for Sustainable Aviation. In order to receive this certificate, learners must complete three somewhat independent courses, each of which results in awarding of a smaller certificate (e.g., “Aviation and Climate Change”). According to the definition of “program” just presented, the Sustainable Aviation Certificate is awarded after the completion of a program. The crucial point for present purposes is that it is *not* a for credit program.

Why are there no elected Senators on the SACC? This is not uncommon for Senate committees. For instance, the Senate AQuE committee need not have *elected* members, either of Senate or of SUG/SGC. But the most relevant analogue is the Curriculum Subcommittee of Senate Undergraduate Committee. The Curriculum Subcommittee includes the AVPA, the Associate Deans Undergraduate from each Faculty, an AFIW representative, student members, and (as non-voting supports) several expert staff members. This subcommittee reviews, on behalf of SUC, all of the undergraduate submissions that come forward. The membership is appropriate because these people have the relevant expertise to understand what to look for in a proposal for a new course, a modification of a program, or a new program proposal. Similarly, the proposal for SACC is that the people reviewing proposed non-credit credentials will have relevant expertise because they are their Faculty’s designated expert on lifelong learning offerings.

Why does it say that it is at the discretion of the SACC Chair that an item of controversy will be referred to Senate for discussion? Compare the comparable passage from Senate Undergraduate Council’s mandate in Bylaw 2: “Any matter of controversy that might arise may be referred to Senate.” The SACC wording is similarly vague about exactly when such a referral to Senate is appropriate, but less vague in that it assigns the job of referring to a particular individual.

Trying to specify in detail what should happen when there is controversy within SACC would be problematic, in that it might tie the hands of the committee in its attempts to resolve issues efficiently. For instance, some discussions within the current Alternative Credentials Approval Committee have led to further discussion with proponents of a particular credential idea and, often, revisions; some discussions have led to conversations between Deans or between a Dean and the Provost. To date, none have been of such a nature that referring to Senate or either SUC or SGC has seemed appropriate. The proposed description of SACC gives the license to so-refer an item if it seems to be one that would benefit from Senate consideration.

Why not add the approval of alternative credentials to the Senate agenda under the consent agenda before they are considered officially approved? What's the rush? This delay can sometimes cause problems. For instance, some one hour sessions aimed at CEOs for which WatSPEED has offered what is essentially a certificate of attendance were ones that (a) needed to be offered within a few weeks in order to draw an audience, (b) were to be delivered by recognized international experts from the University of Waterloo, and (c) drew large audiences and so were both reputation-burnishing for the University and revenue positive. Waiting for a month might have prevented this from happening. There are non-WatSPEED examples of, for instance, summer programs aimed at international learners that could not have been offered if ACAC approvals had taken months instead of days. The flexibility of these approval proposals is an important asset that we should preserve from ACAC.

Moreover, it is worth noting that requiring that non-credit offerings be on the consent agenda of Senate is requiring *a higher degree of Senate oversight than the University requires of for credit academic courses*. These are approved by SUC or SCG on behalf of Senate.

For the interest of Senators, here is a list of ACAC approvals in 2025, reproduced from the report from the Senate AQUe committee to Senate in February.

WatSPEED Offerings

Credential	Partners	Notes
Back end 1: Frameworks and Architecture	School of Computer Science/Inflection Group	Certificate of Achievement
Back end 2: Security, Database Design and Concurrency	School of Computer Science/Inflection Group	Certificate of Achievement
Cloud Computing and Security Essentials	School of Computer Science	Certificate of Achievement
Cloud Computing and Security Fundamentals	School of Computer Science	Certificate of Achievement
Cybersecurity and Privacy	Cybersecurity and Privacy Institute	Certificate of Attendance
Managing AI Projects	Vector Institute	Certificate of Completion
Neural Networks	Faculty of Engineering	Certificate of Completion
Python 2	School of Computer Science	Certificate of Achievement

Non-Credit Credentials not involving WatSPEED

Credential	Whose is it?	Notes
Leveraging AI to Improve Healthcare in Canada	School of Public Health Science (Health)	Certificate of completion
AI Enabled Healthcare	School of Public Health Sciences	Certificate of Completion
Land Development Bootcamp	Future Cities Institute (Environment)	Certificate of participation
Future Cities Field School	Future Cities Institute	Certificate of participation

Leadership Training Program in Entrepreneurship	Faculty of Engineering	Certificate of completion
Global Spotts Management Certificate: Leadership and Innovation	Department of Recreation and Leisure Studies (Health)	Certificate of participation
Municipal Climate Adaptation Certificate	Faculty of Environment	Certificate of completion
Systems and Platform Security	School of Computer Science	Certificate of Achievement

University of Waterloo
SENATE GRADUATE COUNCIL
Minutes of the March 3, 2026 Meeting

Present: Mike Beazely, Steven Bednarski, Helen Chen, David Clausi, Rob de Loë, Alison Hitchens, Brian Ingalls, Brian Laird, Christiane Lemieux, Tony Ly [Secretary], Lilhac Medina, Carter Neal, Christopher Nielsen, Brad Pomeroy, Ian Rowlands, Meray Sadek, Justin Wan [Chair]

Resources/Guests: Laura Bredahl, Graham Brown, John Dick, Carrie MacKinnon Molson, Mary Ochana, Marianne Simm, Nadia Singh, Richard Wikkerink

Regrets: Charmaine Dean, Tom Duever, Vivek Goel, Abhishesh Homagain, Tizazu Mekonnen, Nicholas Pelligrino, Clarence Woudsma

Organization of Meeting: Justin Wan took the chair and Tony Ly acted as secretary. The secretary advised that a quorum was present.

1. Governance Resources

This item was provided for information only.

2. Approval of Agenda

Council heard a motion to approve or receive for information the items of the consent agenda. Bednarski and Hitchens. Carried.

2.1. Conflict of Interest

No conflicts of interest were declared.

2.2. Approval of the Agenda and Consent Items

Council approved the agenda as distributed.

2.3. Business Arising from the Minutes

The Chair noted that Senate approval for the major modifications for the Doctor of Philosophy (PhD) in Political Science and Doctor of Philosophy (PhD) in Political Science - Co-operative programs was deferred pending feedback from the Quality Council.

3. Consent Agenda

3.1. Minutes of the January 21, 2026 Meeting

A council member noted minor amendments for the minutes. Council approved the minutes of the meeting as amended.

3.2. Curricular Submissions

Council approved all curricular submissions items 3.2.1. – 3.2.2. on behalf of Senate.

3.3. Graduate Awards and Scholarships

Council received for information and approved all new awards and scholarships.

3.4. Updated Final Examination Regulations and Guidelines

Council received for information the updated Final Examination Regulations and Guidelines.

4. Regular Agenda

5. Chair's Remarks

The Chair provided updates on the provincial investment in post-secondary education, the planned lifting of the tuition freeze for 2026–27, and major changes to OSAP shifting from primarily grant-

based to predominantly loan-based funding. The Chair mentioned that there are new TA/RA agreements that will impact graduate teaching assistants, research assistants, and sessional instructors. There will be new hiring processes, defined workload limits, pay increases, and expanded leave provisions, with full implementation expected by September 1, 2026. These changes will require greater specificity in admission packages and revisions to institutional policies. Key discussion points included: maximum hours of work per week, changes to overtime pay, number of GTA and GRA appointments in admission package, pay increases, and a review of Policy 1 and Policy 30. The Chair will provide further information to council members at a future Senate Graduate Council meeting.

6. Curricular Submissions

6.1. Graduate Studies Academic Calendar Updates

Simm and Wikkerink presented the changes in the Graduate Studies Academic Calendar. Updates for *Section 10.1 Graduate work-integrated learning* incorporated feedback provided by graduate students. Council members offered additional edits for *Section 13.2.3 Academic progression: Good academic standing*. The Chair recommended deferring approval of this section pending further revisions. *Section 16.4 Courses and assessments* was updated to comply with requirements from Bill 166 legislation.

A motion was heard to recommend that Senate approve the major modifications to the 2026 Graduate Studies Academic Calendar, effective May 1, 2026, as amended. Ingalls and Pomeroy. Carried.

7. Policy 70 Consultation

Singh and Brown provided a summary of the changes for Policy 70, which has undergone extensive consultation with different stakeholders on campus. The revised policy will be submitted to Senate for approval. A council member asked for clarification on the reassessment procedures and criteria. Singh stated that each Faculty may have their own reassessment criteria. Additional support is available for those who would like to develop new procedures. Council members were encouraged to send any additional comments and feedback to Singh and Brown.

8. ORCID Implementation Pilot

Bredahl and Ochana presented an update about the ORCID pilot project and highlighted its importance for research tracking and funding applications. This work was endorsed by the Working Group on Bibliometrics and supported by the library, Office of Research, and GSPA. Focus groups were conducted with graduate students, staff, and faculty. The findings included challenges with user adoption and highlighted opportunities to improve administrative processes such as annual performance reviews. Key discussion points included: engagement with GSA members and the burden of having to create multiple online CVs. Bredahl mentioned that further improvements to the system is underway and invited council members to send further questions to library staff.

9. Velocity Support and Resources for Graduate Students

Dick provided a presentation about Velocity and highlighted various programs and funding opportunities that are available for students, staff, and faculty. Since its founding, Velocity has supported over 1,200 founders and 500 companies. Through its programming, Velocity aims to bridge the gap into industry by helping entrepreneurs develop new skills to create sustainable impact. Dick noted that Velocity is aiming to be a cost-recovery unit, and broader engagement is needed to increase awareness about its services among members of the campus community.

10. Items Removed from the Consent Agenda

No item was removed from the consent agenda.

11. Other Business

No other items of business were identified.

12. Adjournment

The next meeting of the Senate Graduate Council will be held on April 16, 2026 from 10:00 a.m. - 11:30 a.m. in Needles Hall 3318.

Date 2026/04/08

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Meeting Information

Agenda Page Title

SGC - Arts - Consent Agenda - April 16, 2026

Career Level

Graduate,

Faculty/Unit

Arts

Date

2026-04-16

Summary

Course Proposals:

1) Catholic Thought (CT) (St. Jerome's University)

16 courses being inactivated

5 new courses

1) History (HIST)

53 course revisions (51 attached)

2) Psychology (PSYCH)

1 new course

3) Religious Studies (RS)

1 course revision

1 new course

Program Proposals:

1) English Language and Literature

1.1) MA in English - Literary Studies

1.2) MA in English - Literary Studies - Co-operative Program

a) Updating the Master's Research Paper milestone description.

2) Psychology

*2.1) MAsc in Psychology - Developmental and Communication Science *

a) Updating the degree requirements to align with the current practice and to articulate the requirements of the program's study options more clearly.

2.2) PhD in Psychology

a) Updating the Applied Data Science Graduate Specialization requirements to specify that the courses must have a numeric grading basis.

Attachment(s)

- [HIST 600 level courses - graduate studies course milestone form - Reviewed by GSPA.pdf](#)

Course Proposals

Courses: Retire

Code	Title	Type	Workflow Step
CT 601	The Books of Church	Courses	SGC, Senate Graduate Council (SGC)
CT 602	The History of Catholicism	Courses	SGC, Senate Graduate Council (SGC)
CT 603	Foundations of Theology	Courses	SGC, Senate Graduate Council (SGC)
CT 604	Catholic Moral Life and Thought	Courses	SGC, Senate Graduate Council (SGC)
CT 605	The Prayer of Church: Spirituality and Liturgy	Courses	SGC, Senate Graduate Council (SGC)
CT 606A	Catholic Thought Research Paper or Project - Part I	Courses	SGC, Senate Graduate Council (SGC)
CT 606B	Catholic Thought Research Paper or Project - Part II	Courses	SGC, Senate Graduate Council (SGC)
CT 610	Catholic Sacramental Life	Courses	SGC, Senate Graduate Council (SGC)
CT 611	Catholic Perspectives on Ecology	Courses	SGC, Senate Graduate Council (SGC)
CT 612	Special Topics in Catholic Theology	Courses	SGC, Senate Graduate Council (SGC)
CT 613	The Catholic Imagination in Art and Literature	Courses	SGC, Senate Graduate Council (SGC)
CT 614	Catholicism and Education	Courses	SGC, Senate Graduate Council (SGC)
CT 615	Catholic Social Ethics	Courses	SGC, Senate Graduate Council (SGC)
CT 616	Gender Ethics in Roman Catholicism	Courses	SGC, Senate Graduate Council (SGC)
CT 617	Contemporary Bioethics: Issues of Life and Death	Courses	SGC, Senate Graduate Council (SGC)
CT 618	The Catholic Church in Canada	Courses	SGC, Senate Graduate Council (SGC)

Courses: New

Code	Title	Type	Workflow Step
CT 600	Foundations of Catholic Thought	Courses	SGC, Senate Graduate Council (SGC)
CT 620	The Human Person	Courses	SGC, Senate Graduate Council (SGC)
CT 630	The Catholic Church in the World	Courses	SGC, Senate Graduate Council (SGC)
CT 640	Catholicism and Social Justice	Courses	SGC, Senate Graduate Council (SGC)
CT 690	Topics in Catholic Thought	Courses	SGC, Senate Graduate Council (SGC)
PSYCH 830	Research Apprenticeship III	Courses	SGC, Senate Graduate Council (SGC)
RS 740	Theories and Methods in the Study of Religion, Culture, and Society	Courses	SGC, Senate Graduate Council (SGC)

Courses: Changes

Code	Title	Type	Workflow Step
HIST 712	Scottish History Major Field	Courses	SGC, Senate Graduate Council (SGC)

HIST 759	War and Society Minor Area Seminar	Courses	SGC, Senate Graduate Council (SGC)
RS 750	Case Studies in Religion, Culture, and Society	Courses	SGC, Senate Graduate Council (SGC)

Programs & Plans Proposals

Programs & Plans: Retire
No proposals have been added.

Programs & Plans: Major Modifications
No proposals have been added.

Programs & Plans: Minor Modifications

Code	Title	Type	Workflow Step
MA in English-Literary Studies	Master of Arts (MA) in English - Literary Studies	Programs	SGC, Senate Graduate Council (SGC)
MA in English-Literary Studies-Co-op	Master of Arts (MA) in English - Literary Studies - Co-operative Program (direct entry)	Programs	SGC, Senate Graduate Council (SGC)
MAsc in Psychology-Developmental & Communication Science	Master of Applied Science (MAsc) in Psychology - Developmental and Communication Science	Programs	SGC, Senate Graduate Council (SGC)
PhD in Psychology	Doctor of Philosophy (PhD) in Psychology	Programs	SGC, Senate Graduate Council (SGC)

Regulations Proposals

Regulations: Retire
No proposals have been added.

Regulations: New
No proposals have been added.

Regulations: Changes
No proposals have been added.

CT 601 - The Books of Church

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate		12640	1

Proposed
Effective Term and Year Fall 2026
Existing
Effective Term and Year Fall 2023

Proposal Details

Proposal Type

Retire

Last Offering of Course

Fall 2021

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

The Master of Catholic Thought (MCT) program is undergoing a major modification as a result of a comprehensive review of the program, student and alumni input, an environmental scan of similar master's-level programs, and an assessment of St. Jerome's University resources available to deliver the program. Consequently, all current CT courses are being retired and five new courses created to enhance the student experience and meet specific academic interests.

Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

601

Title

The Books of Church

Abbreviated Title

The Books of Church

Description

This course will examine the historical development of the Bible, the different types of writing found in the Bible, and the methods used to interpret the meaning of the scriptures.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

[View Program](#)

CT 602 - The History of Catholicism

[Top](#)

Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2023

Quest Course ID

12641

Offering Number

1

Proposal Details

Proposal Type

Retire

Last Offering of Course

Fall 2024

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

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Course Information**Faculty**

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

602

Title

The History of Catholicism

Abbreviated Title

The History of Catholicism

Description

This course will survey the development of Christianity from the time of Christ to the present, with a particular emphasis on the Roman Catholic tradition.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components**Primary Component**

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

[View Program](#)

CT 603 - Foundations of Theology

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFF9C4; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	12642	1

Proposal Details

Proposal Type
Retire

Last Offering of Course
Winter 2022

Retired Impact
Yes

Retired Impact Details
The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

603

Title

Foundations of Theology

Abbreviated Title

Foundations of Theology

Description

An examination of the fundamental aspects and categories of theological reflection including: the nature of faith, religious and theological language, the mystery of God, the meaning of the Incarnation, creation and redemption, the human person, the nature and mission of the church, the role of Mary.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

[View Program](#)

CT 604 - Catholic Moral Life and Thought

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Effective Date & Career

Career

Effective Term and Year

Quest Course ID

Offering Number

Graduate

12643

1

Proposed
Effective Term and Year Fall 2026
Existing
Effective Term and Year Fall 2023

Proposal Details

Proposal Type

Retire

Last Offering of Course

Fall 2023

Retired Impact

Yes

Retired Impact Details

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SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

604

Title

Catholic Moral Life and Thought

Abbreviated Title

Catholic Moral Life & Thought

Description

This course will explore the field of ethics in the context of Catholic Christian faith. It will examine fundamental concepts in the Catholic moral tradition and look at the significance of those concepts when dealing with contemporary ethical issues.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes**Workflow Information****Workflow Path**

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies**Master's Research Paper Option: Course Requirements**

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 605 - The Prayer of Church: Spirituality and Liturgy

[Top](#)**Effective Date & Career****Career**

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2023

Quest Course ID

12644

Offering Number

1

Proposal Details**Proposal Type**

Retire

Last Offering of Course

Winter 2023

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

The Master of Catholic Thought (MCT) program is undergoing a major modification as a result of a comprehensive review of the program, student and alumni input, an environmental scan of similar master's-level programs, and an assessment of St. Jerome's University resources available to deliver the program. Consequently, all current CT courses are being retired and five new courses created to enhance the student experience and meet specific academic interests.

Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information**Faculty**

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

605

Title

The Prayer of Church: Spirituality and Liturgy

Abbreviated Title

The Prayer of Church

Description

This course will deal with the essential aspects of Christian spirituality and Catholic liturgical life. It will examine these aspects from biblical, historical and theological perspectives and explore their role in contemporary Catholicism.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components**Primary Component**

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 606A - Catholic Thought Research Paper or Project - Part I

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	13606	1

Proposal Details

Proposal Type

Retire

Last Offering of Course

Spring 2024

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information**Faculty**

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

606A

Title

Catholic Thought Research Paper or Project - Part I

Abbreviated Title

CT Research Paper/Project I

Description

Catholic Thought Research Paper or Project - Part I

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

There are no dependencies

CT 606B - Catholic Thought Research Paper or Project - Part II

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Quest Course ID

13607

Offering Number

1

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2023

Proposal Details

Proposal Type

Retire

Last Offering of Course

Winter 2025

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

606B

Title

Catholic Thought Research Paper or Project - Part II

Abbreviated Title

CT Research Paper /Project II

Description

Catholic Thought Research Paper or Project - Part II

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes**Workflow Information****Workflow Path**

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

There are no dependencies

CT 610 - Catholic Sacramental Life[Top](#)**Effective Date & Career****Career**

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2023

Quest Course ID

12645

Offering Number

1

Proposal Details**Proposal Type**

Retire

Last Offering of Course

Never offered

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who

are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

610

Title

Catholic Sacramental Life

Abbreviated Title

Catholic Sacramental Life

Description

This course provides biblical, historical, theological and pastoral perspectives on the sacramental life of the Catholic church.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
No

Repeatable Courses

Can this course be repeated for credit?
No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites
No Rules

Corequisites
No Rules

Antirequisites
No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
St. Jerome's University Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 611 - Catholic Perspectives on Ecology

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	12646	1

Proposal Details

Proposal Type

Retire

Last Offering of Course

Fall 2015

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

611

Title

Catholic Perspectives on Ecology

Abbreviated Title

Perspectives on Ecology

Description

An examination of the ways in which Roman Catholic thinkers and communities are involved in the theology and ecology discourse. Historical background, recent debates, church teachings and contemporary approaches to the ethical issues will be explored.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 612 - Special Topics in Catholic Theology

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year
Fall 2026

Existing

Quest Course ID

12647

Offering Number

1

Proposal Details

Proposal Type

Retire

Last Offering of Course

Spring 2023

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

612

Title

Special Topics in Catholic Theology

Abbreviated Title

Special Topics

Description

In-depth examination of select topics in Catholic theology. Consult the MCT website or Graduate Studies calendar for current offerings. Examples include topics such as: The Papacy; Ecumenism and Interfaith Dialogue; the Bible and Peace.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

Yes

Total Completions Allowed

03

Allow Multiple Enrol in a Term

Yes

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
St. Jerome's University Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT) [View Program](#)

CT 613 - The Catholic Imagination in Art and Literature

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	12648	1

Proposal Details

Proposal Type
Retire

Last Offering of Course
Fall 2022

Retired Impact
Yes

Retired Impact Details
The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective

date can, therefore, be September 1, 2026.

Rationale for Change

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

613

Title

The Catholic Imagination in Art and Literature

Abbreviated Title

The Catholic Imagination

Description

An exploration of the role and significance of the Catholic imagination in a variety of art forms and literature.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 614 - Catholicism and Education

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	12649	1

Proposal Details

Proposal Type

Retire

Last Offering of Course

Never offered

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

614

Title

Catholicism and Education

Abbreviated Title

Catholicism and Education

Description

This course provides an historical perspective on Catholic education in Canada and examines contemporary issues regarding the role of Catholicism in education.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 615 - Catholic Social Ethics

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Quest Course ID

12650

Offering Number

1

Proposal Details

Proposal Type

Retire

Last Offering of Course

Winter 2024

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

615

Title

Catholic Social Ethics

Abbreviated Title

Description

A study of the basic principles of Catholic social teaching through an examination of church documents and the rise of social movements. Exploration of contemporary applications of the basic principles to issues such as poverty, immigration, the market economy, women, agriculture, ecology, work.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 616 - Gender Ethics in Roman Catholicism

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2023

Quest Course ID

12651

Offering Number

1

Proposal Details

Proposal Type

Retire

Last Offering of Course

Fall 2010

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective

date can, therefore, be September 1, 2026.

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

616

Title

Gender Ethics in Roman Catholicism

Abbreviated Title

Gender Ethics

Description

This course examines historical and contemporary Roman Catholic approaches to ethical questions about human sexuality and relationships. Topics include: marriage, celibacy, single life, homosexuality, HIV/AIDS, sexual violence, gender roles, abortion, and sexuality and spirituality.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
No

Repeatable Courses

Can this course be repeated for credit?
No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites
No Rules

Corequisites
No Rules

Antirequisites
No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
St. Jerome's University Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 617 - Contemporary Bioethics: Issues of Life and Death

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number				
Graduate	<table><tr><td>Proposed</td></tr><tr><td>Effective Term and Year Fall 2026</td></tr><tr><td>Existing</td></tr><tr><td>Effective Term and Year Fall 2023</td></tr></table>	Proposed	Effective Term and Year Fall 2026	Existing	Effective Term and Year Fall 2023	12652	1
Proposed							
Effective Term and Year Fall 2026							
Existing							
Effective Term and Year Fall 2023							

Proposal Details

Proposal Type

Retire

Last Offering of Course

Fall 2008

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

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Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

617

Title

Contemporary Bioethics: Issues of Life and Death

Abbreviated Title

Contemporary Bioethics

Description

This course examines the relevance of Catholic moral principles to discussions of contemporary issues in bioethics. Topics include: reproductive technologies, cloning and stem cell research, genetics, resource allocation, abortion, death and dying.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites
No Rules

Corequisites
No Rules

Antirequisites
No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
St. Jerome's University Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

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CT 618 - The Catholic Church in Canada

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Effective Date & Career

Career
Graduate

Effective Term and Year

Quest Course ID
12653

Offering Number
1

Proposed

Effective Term and
Year
Fall 2026

Existing

Proposal Details

Proposal Type

Retire

Last Offering of Course

Never offered

Retired Impact

Yes

Retired Impact Details

The removal of this course aligns with modifications to the program. As a result, it is no longer needed to fulfill the requirements of the modified program. Additionally, the removal of this course will not affect any current students as there are currently no active students and those students who are inactive have completed their course requirements. The effective date can, therefore, be September 1, 2026.

Rationale for Change

The Master of Catholic Thought (MCT) program is undergoing a major modification as a result of a comprehensive review of the program, student and alumni input, an environmental scan of similar master's-level programs, and an assessment of St. Jerome's University resources available to deliver the program. Consequently, all current CT courses are being retired and five new courses created to enhance the student experience and meet specific academic interests.

Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

618

Title

The Catholic Church in Canada

Abbreviated Title

The Catholic Church in Canada

Description

An examination of the history of the Catholic Church in English and French-speaking Canada. The role, significance and contributions of the Catholic Church to Canadian society will be explored.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

Master's Research Paper Option: Course Requirements

- Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

[View Program](#)

CT 600 - Foundations of Catholic Thought

[Top](#)

Effective Date & Career

Career

Graduate

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New

Rationale for New Course

The Master of Catholic Thought (MCT) program is undergoing a major modification as a result of a comprehensive review of the program, student and alumni input, an environmental scan of similar master's-level programs, and an assessment of St. Jerome's University resources available to deliver the program. Consequently, all current CT courses are being retired and five new courses created to enhance the student experience and meet specific academic interests.

Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

600

Title

Foundations of Catholic Thought

Abbreviated Title

Catholic Thought Foundations

Description

An examination of the themes, methods, and sources in the Catholic intellectual tradition. Emphasis is placed on the Catholic tradition's development in relation to broader theological, philosophical, social, political, and historical movements.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Online Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

There are no dependencies

CT 620 - The Human Person

[Top](#)

Effective Date & Career

Career

Graduate

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New

Rationale for New Course

The Master of Catholic Thought (MCT) program is undergoing a major modification as a result of a comprehensive review of the program, student and alumni input, an environmental scan of similar master's-level programs, and an assessment of St. Jerome's University resources available to deliver the program. Consequently, all current CT courses are being retired and five new courses created to enhance the student experience and meet specific academic interests.

Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information**Faculty**

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

620

Title

The Human Person

Abbreviated Title

The Human Person

Description

An examination of the Catholic understanding of the human person. Topics include the biblical concept of human beings created in the image of God, human dignity, sin and grace, the social nature of human beings, historical conceptions of personhood, sexuality and gender, race, freedom, the good life, and destiny.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Online Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

There are no dependencies

CT 630 - The Catholic Church in the World

[Top](#)

Effective Date & Career

Career
Graduate

Effective Term and Year
Fall 2026

Proposal Details

Proposal Type
New

Rationale for New Course

The Master of Catholic Thought (MCT) program is undergoing a major modification as a result of a comprehensive review of the program, student and alumni input, an environmental scan of similar master's-level programs, and an assessment of St. Jerome's University resources available to deliver the program. Consequently, all current CT courses are being retired and five new courses created to enhance the student experience and meet specific academic interests.

Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

630

Title

The Catholic Church in the World

Abbreviated Title

Catholic Church in the World

Description

An examination of the Church's interaction with contemporary society both in Canada and in various places around the world, focusing on the Church's historical development in relation to varying social, political, and cultural contexts. Course themes may include Catholic identity, global Catholicism, secularization, religious freedom, Catholic media, the Church and science, Catholic education, and Catholic health care.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Online Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes**Workflow Information****Workflow Path**

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University Faculty of Arts

Dependencies

There are no dependencies

CT 640 - Catholicism and Social Justice[Top](#)**Effective Date & Career****Career**

Graduate

Effective Term and Year

Fall 2026

Proposal Details**Proposal Type**

New

Rationale for New Course

The Master of Catholic Thought (MCT) program is undergoing a major modification as a result of a comprehensive review of the program, student and alumni input, an environmental scan of similar master's-level programs, and an assessment of St. Jerome's University resources available to deliver the program. Consequently, all current CT courses are being retired and five new courses created to enhance the student experience and meet specific academic interests.

Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Course Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

640

Title

Catholicism and Social Justice

Abbreviated Title

Catholicism and Social Justice

Description

A study of the foundational principles of Catholic social teaching through an examination of Church documents and the rise of social movements. Students will examine contemporary applications of the foundational principles to issues such as poverty, work, immigration, the market economy, human rights, gender, race, ecology, and armed conflict.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Online Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

There are no dependencies

CT 690 - Topics in Catholic Thought

[Top](#)

Effective Date & Career

Career

Graduate

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New

Rationale for New Course

The Master of Catholic Thought (MCT) program is undergoing a major modification as a result of a comprehensive review of the program, student and alumni input, an environmental scan of similar master's-level programs, and an assessment of St. Jerome's University resources available to deliver the program. Consequently, all current CT courses are being retired and five new courses created to enhance the student experience and meet specific academic interests.

Consultations

SJU Academic Committee, December 5, 2025

SJU Senate Council approval, January 23, 2026

Conrad Grebel University College has been informed of the Master of Catholic Thought plan and course changes

Course Information**Faculty**

St. Jerome's University

Academic Unit

St. Jerome's University

Subject Code

CT

Number

690

Title

Topics in Catholic Thought

Abbreviated Title

Topics in Catholic Thought

Description

This course provides an opportunity for directed study on a topic within the field of Catholic thought.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Online

Reading

Primary Component

Reading

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
No

Repeatable Courses

Can this course be repeated for credit?	Total Completions Allowed	Allow Multiple Enrol in a Term
Yes	05	Yes

Enrolment Rules

Consent to Add
Department consent required

Consent to Drop
Department consent required

Prerequisites
No Rules

Corequisites
No Rules

Antirequisites
No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
St. Jerome's University Faculty of Arts

Dependencies

There are no dependencies

PSYCH 830 - Research Apprenticeship III

[Top](#)

Effective Date & Career

Career
Graduate

Effective Term and Year
Spring 2026

Proposal Details

Proposal Type
New

Rationale for New Course

We are adding a third research apprenticeship course for students to enroll in to better align our formal program requirements with student activities and desired training. Students are interested in obtaining longer, more intensive research training during the MASc. Three semesters of 10 hours per week devoted to research allows students to engage more deeply in the research process and sets the expectation that students should be engaged in the lab research program each semester.

Course Information

Faculty
Faculty of Arts

Academic Unit
School of Psychology

Subject Code
PSYCH

Number
830

Title
Research Apprenticeship III

Abbreviated Title
Research Apprenticeship III

Description

Intended for students who will be seeking further studies at the Ph D level, this research apprenticeship follows Research Apprenticeships I and II and will provide a student with a more advanced laboratory research project. This requires approximately 10 hours per week of research work. The particular project that the student will be engaged in, and the ultimate end project of the Apprenticeship at the end of the three terms, will be determined by the student and advisor together.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Practicum

Primary Component

Practicum

Grading Information**Grading Basis**

Credit/No Credit

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add**

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

There are no dependencies

RS 740 - Theories and Methods in the Study of Religion, Culture, and Society

[Top](#)

Effective Date & Career

Career

Graduate

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New

Academic Unit Approval

2025-12-03

Rationale for New Course

The joint Religious Studies Ph D program is being revised to a program in Religion, Culture, and Society. With the removal of the field of Religious Diversity in North America, the required courses on North America need to be replaced with appropriate courses. This course will be a new required course, typically taken in Fall, ahead of the second required course, RS 750 Case Studies in Religion, Culture, and Society, typically taken in Winter.

Course Information

Faculty

Faculty of Arts

Academic Unit

School of Social, Political and Historical Research

Subject Code

RS

Number

740

Title

Theories and Methods in the Study of Religion, Culture, and Society

Abbreviated Title

Theory and Method in Religion

Description

This course explores theories and methods in the study of religion, culture, and society. Emphasis is placed on interdisciplinary approaches, contexts, and critiques.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes**Workflow Information****Workflow Path**

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

There are no dependencies

HIST 712 - Scottish History Major Field[Top](#)**Effective Date & Career****Career**

Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2023**Quest Course ID**

10523

Offering Number

1

Proposal Details**Proposal Type**

Change

Academic Unit Approval

2026-01-13

Unit Weight/Number Changes

No

Rationale for Change

This change would have no major impact on students. Previously, all courses in the Department of History required departmental consent to enroll at both the Master's and the doctoral level in order to ensure fair access to all Tri-University students pursuing coursework at UW. Upon a recent examination of the registration process for the Tri-U, it was determined that this type of consent adds unnecessary administrative work. By removing the departmental consent required and adding program specific prerequisites, it will allow UW History graduate students to enroll themselves in their courses without the assistance of the department. Tri-U OVGS enrolment occurs before open enrolment for UW students, so Laurier and Guelph students will not be affected by the change.

Course Information**Faculty**

Faculty of Arts

Academic Unit

Department of History

Subject Code

HIST

Number

712

Title

Scottish History Major Field

Abbreviated Title

Scottish History Major Field

Description

Scottish History Major Field

Units

1.00

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. Enrolled in PhD in History

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

There are no dependencies

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Spring 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	13079	1

Proposal Details

Proposal Type Change	Academic Unit Approval 2026-01-13
--------------------------------	---

Unit Weight/Number Changes
No

Rationale for Change

This change would have no major impact on students. Previously, all courses in the Department of History required departmental consent to enroll at both the Master's and the doctoral level in order to ensure fair access to all Tri-University students pursuing coursework at UW. Upon a recent examination of the registration process for the Tri-U, it was determined that this type of consent adds unnecessary administrative work. By removing the departmental consent required and adding program specific prerequisites, it will allow UW History graduate students to enroll themselves in their courses without the assistance of the department. Tri-U OVGS enrolment occurs before open enrolment for UW students, so Laurier and Guelph students will not be affected by the change.

Course Information

Faculty Faculty of Arts	Academic Unit Department of History
Subject Code HIST	Number 759
Title	

War and Society Minor Area Seminar

Abbreviated Title

War and Society Minor Area

Description

War and Society Minor Area Seminar

Units

1.00

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. Enrolled in PhD in History

Corequisites

No Rules

Antirequisites

No Rules

Course Notes**Workflow Information****Workflow Path**

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

There are no dependencies

RS 750 - Case Studies in Religion, Culture, and Society[Top](#)**Effective Date & Career****Career**

Graduate

Effective Term and Year

Fall 2026

Quest Course ID

12011

Offering Number

1

Proposal Details**Proposal Type**

Change

Academic Unit Approval

2025-12-03

Unit Weight/Number Changes

Yes

Rationale for Change

The joint Religious Studies Ph D program is being revised to a program in Religion, Culture, and Society. With the removal of the field of Religious Diversity in North America, the required courses on North America need to be replaced with appropriate courses. This course is being elevated from an elective to a required course. It is being renamed to reflect the nature of the revised program. It is being renumbered to make a more logical progression from the other required course, RS 740.

Course Information

Faculty

Faculty of Arts

Academic Unit

School of Social, Political and Historical Research

Subject Code

RS

Number

Proposed

Number
750

Existing

Number
701

Title

Proposed

Title

Case Studies in Religion, Culture, and Society

Existing

Title

Case Studies in Religion

Abbreviated Title

Case Studies in Religion

Description

Case studies focused on lived religions in their cultural settings.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

There are no dependencies

Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed
Effective Term and Year Spring 2026
Existing
Effective Term and Year Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
No

Is the credential name changing?
No

Graduate Co-operative Requirements
Not Applicable

Change to Learning Outcomes
No

Rationale and Background for Change(s)

Updating the Master’s Research Paper LIT milestone description. Both the MA in English - Rhetoric and Communication Design (RCD) and MA in - English Critical Media Studies (CMS) have Major Research Paper options that allow students some flexibility in the type of project: The MA RCD allows for either a paper or design of a communicative artifact and a reflective paper; the CMS option allows for either a paper or a hands-on design object creation and a reflective paper. This option for the MA in English - Literary Studies (LIT) MRP milestone keeps it in line with our other streams by increasing the options for students to include either a paper or a short creative writing project and a reflective paper. We anticipate this choice attracting more LIT students to the MA, as they gain flexibility in the MRP option.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of English Language and Literature

Graduate Field of Study

English Language and Literature

Faculty

Faculty of Arts

Program/Plan Name

Master of Arts (MA) in English - Literary Studies

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Thesis / Master's Research Paper / Coursework

Admit Term(s)

Fall

Delivery Mode

On-campus

Length of Program

- 3 terms (12 months)

Registration Option(s)

Full-time, Part-time

Admissions

Admission Requirements: Minimum Requirements

- An Honours Bachelor's degree in English, or its equivalent, with an average of at least 78% in English courses, and at least 75% overall.
 - Those applying to the program holding relevant Honours degrees other than English may be admitted at the discretion of the Admissions Committee.
- A Statement of Interest, no more than 500 words, explaining your reasons for applying to the program.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Statement of interest
- Transcript(s)

Admission Requirements: References

- Number of references: 3
- Type of references: at least 2 academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements associated with their chosen study option in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Thesis Option: Course Requirements

No Rules

Thesis Option: Course Requirements

- Students must complete the following 4 courses:
 - 2 courses designated as Literature
 - 1 course designated as Rhetoric and Communication Design or Experimental Digital Media
 - 1 elective course from either within or outside the Department
- Students may include 2 extra-departmental graduate courses in their degree requirements, but these courses must be approved by the Graduate Committee. For a course outside the University of Waterloo, the Ontario Visiting Graduate Student (OVGS) form must be completed. For a course inside the University, the Departmental Graduate Studies Committee must approve. In either case, the Department's Graduate Office must be supplied with a syllabus in electronic form and the course must be approved before the beginning of the term in which it is scheduled to run.
- If students can demonstrate that a reading course is necessary to their overall program, they may petition the Departmental Graduate Studies Committee to allow such an independent course. Directed reading courses must be designed and submitted to the Graduate Committee by the instructor in consultation with the student, and the course outline (with rationale, reading list, assignments and schedule) must be approved by the Graduate Committee in the term prior to the one in which the course is to be run. A reading course will not be approved if a course in a similar area, or with the same faculty member, will be taught that year; if the proposed course overlaps substantially with work that is also to be credited as an MRP or thesis; or if it would not be feasible within that term's scheduling and enrolment constraints. Students are permitted to take only 1 reading course as part of the degree.
- In order to graduate, candidates must receive an average of at least 75% in their courses. If a student receives one failing grade or two grades lower than 70%, the Departmental Graduate Studies Committee will review their standing in the program and the student may be asked to withdraw from the program.

Thesis Option: Milestone Requirements

Master's Thesis

- Students electing the thesis option will be encouraged to have a thesis proposal approved by the end of the second academic term and the thesis bound and delivered by the end of the third academic term. The thesis will usually run from 80 to 100 pages of typescript. It will be evaluated by the supervisor and one other reader. Three copies of the approved thesis (agreeing in format with the Thesis Regulations and Guide issued by Graduate Studies and Postdoctoral Affairs) will be submitted to the Graduate Office no later than five weeks before Convocation, either in the Spring or in the Fall.

Coursework Option: Course Requirements

No Rules

Coursework Option: Course Requirements

- Students must complete the following 8 courses:
 - 4 courses designated as Literature
 - 1 course designated as Rhetoric and Communication Design or Experimental Digital Media
 - 3 electives
- Students may include 1 extra-departmental graduate course in their degree requirements, but these courses must be approved by the Graduate Committee. For a course outside the University of Waterloo, the Ontario Visiting Graduate Student (OVGS) form must be completed. For a course inside the University, the Departmental Graduate Studies Committee must approve. In either case, the Department's Graduate Office must be supplied with a syllabus in electronic form and the course must be approved before the beginning of the term in which it is scheduled to run.
- If students can demonstrate that a reading course is necessary to their overall program, they may petition the Departmental Graduate Studies Committee to allow such an independent course. Directed reading courses must be designed and submitted to the Graduate Committee by the instructor in consultation with the student, and the course outline (with rationale, reading list, assignments and schedule) must be approved by the Graduate Committee in the term prior to the one in which the course is to be run. A reading course will not be approved if a course in a similar area, or with the same faculty member, will be taught that year; if the proposed course overlaps substantially with work that is also to be credited as an MRP or thesis; or if it would not be feasible within that term's scheduling and enrolment constraints. Students are permitted to take only 1 reading course as part of the degree.
- In order to graduate, candidates must receive an average of at least 75% in their courses. If a student receives one failing grade or two grades lower than 70%, the Departmental Graduate Studies Committee will review their standing in the program and the student may be asked to withdraw from the program.

Master's Research Paper Option: Course Requirements

No Rules

Master's Research Paper Option: Course Requirements

- Students must complete the following 6 courses:
 - 3 courses designated as Literature
 - 1 course designated as Rhetoric and Communication Design or Experimental Digital Media
 - 2 electives
- Students may include 1 extra-departmental graduate course in their degree requirements, but these courses must be approved by the Graduate Committee. For a course outside the University of Waterloo, the Ontario Visiting Graduate Student (OVGS) form must be completed. For a course inside the University, the Departmental Graduate Studies Committee must approve. In either case, the Department's Graduate Office must be supplied with a syllabus in electronic form and the course must be approved before the beginning of the term in which it is scheduled to run.
- If students can demonstrate that a reading course is necessary to their overall program, they may petition the Departmental Graduate Studies Committee to allow such an independent course. Directed reading courses must be designed and submitted to the Graduate Committee by the instructor in consultation with the student, and the course outline (with rationale, reading list, assignments and schedule) must be approved by the Graduate Committee in the term prior to the one in which the course is to be run. A reading course will not be approved if a course in a similar area, or with the same faculty member, will be taught that year; if the proposed course overlaps substantially with work that is also to be credited as an MRP or thesis; or if it would not be feasible within that term's scheduling and enrolment constraints. Students are permitted to take only 1 reading course as part of the degree.
- In order to graduate, candidates must receive an average of at least 75% in their courses. If a student receives one failing grade or two grades lower than 70%, the Departmental Graduate Studies Committee will review their standing in the program and the student may be asked to withdraw from the program.

Master's Research Paper Option: Milestone Requirements

Proposed

Master's Research Paper Option: Milestone Requirements

Master's Research Paper

- The Master's Research Paper should be 40-50 pages in length, offering an in-depth inquiry into a literary studies problem and situating the proposed solution to that problem in relation to current theory OR a 25-page creative writing project accompanied by a 20-25-page paper that describes and theorizes the project in the context of literary studies. It is roughly equivalent to two 0.50 unit weight courses and should involve a similar amount of intellectual labour. The passing grade is 70%. The Master's Research Paper may involve primary document research and will involve assessing the secondary literature on the topic. It will be supervised by a member of the faculty and have a second reader who is also a regular member of faculty (who is not a supervisor or co-supervisor), but who may belong to a different academic unit than English.
- Students planning to complete their degree through this option should arrange a supervisor and a second reader and prepare a proposal and working bibliography for the approval of the Departmental Graduate Studies Committee before the end of the second academic term.

Existing

Master's Research Paper Option: Milestone Requirements

Master's Research Paper

- The Master's Research Paper will be 40-50 pages long. It will be an in-depth inquiry into a problem in Literary Studies, and will situate the problem and proposed solutions in relation to selected aspects of the current state of knowledge. It may involve primary document research and will involve assessing the secondary literature on the topic. It will be supervised by a member of the faculty and have a second reader who is also a member of faculty, by who may belong to a different academic unit than English.
- Students planning to complete their degree through this option should arrange a supervisor and a second reader and prepare a proposal and working bibliography for the approval of the Departmental Graduate Studies Committee before the end of the second academic term.

Notes

- [Department of English Language and Literature website](#)
- [Master of Arts \(MA\) in English - Literary Studies future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Prerequisites

- ENGL 799 - Media Theory and Critique [View Program](#)
- ENGL 700 - Rhetorical Studies [View Program](#)
- ENGL 797 - Digital Media and Literature [View Program](#)
- ENGL 796 - Propaganda and Ideology [View Program](#)
- ENGL 780 - Studies in Genre [View Program](#)
- ENGL 755 - Studies in 19th Century American Literature [View Program](#)
- ENGL 770 - Studies in Canadian Literature [View Program](#)
- ENGL 725 - Studies in Romanticism [View Program](#)
- ENGL 710 - Studies in Renaissance Drama [View Program](#)
- ENGL 750 - Studies in Early American Literature [View Program](#)
- ENGL 715 - Studies in Renaissance Prose and Poetry [View Program](#)
- ENGL 705 - Studies in Old and Middle English Literature [View Program](#)
- ENGL 790 - Discourse Analysis [View Program](#)
- ENGL 735 - Studies in Modern British Literature [View Program](#)
- ENGL 793 - History of Rhetoric [View Program](#)
- ENGL 792 - Semiotics [View Program](#)
- ENGL 785 - Studies in Literary Criticism [View Program](#)
- ENGL 791 - Professional Writing [View Program](#)
- ENGL 794 - Digital Culture [View Program](#)
- ENGL 775 - Studies in Commonwealth Literature [View Program](#)
- ENGL 720 - Studies in the Restoration and Eighteenth Century Literature [View Program](#)
- ENGL 730 - Studies in Victorian Literature [View Program](#)
- ENGL 795 - Studies in Selected Topics [View Program](#)
- ENGL 789 - Writing Studies [View Program](#)
- ENGL 702 - Rhetorical Research Methods [View Program](#)

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**MA in English-Literary Studies-Co-op - Master of Arts
(MA) in English - Literary Studies - Co-operative Program**

Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
No

Is the credential name changing?
No

Graduate Co-operative Requirements
No

Change to Learning Outcomes
No

Rationale and Background for Change(s)

Updating the Master's Research Paper LIT milestone description. Both the MA in English - Rhetoric and Communication Design (RCD) and MA in - English Critical Media Studies (CMS) have Major Research Paper options that allow students some flexibility in the type of project: The MA RCD allows for either a paper or design of a communicative artifact and a reflective paper; the CMS option allows for either a paper or a hands-on design object creation and a reflective paper. This option for the MA in English - Literary Studies (LIT) MRP milestone keeps it in line with our other streams by increasing the options for students to include either a paper or a short creative writing project and a reflective paper. We anticipate this choice attracting

more LIT students to the MA, as they gain flexibility in the MRP option.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of English Language and Literature

Graduate Field of Study

English Language and Literature

Faculty

Faculty of Arts

Program/Plan Name

Master of Arts (MA) in English - Literary Studies - Co-operative Program (direct entry)

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Thesis / Master's Research Paper / Coursework

Program Types

Co-operative

Admit Term(s)

Fall

Delivery Mode

On-campus

Length of Program

- 5 terms (20 months)

Registration Option(s)

Full-time, Part-time

Admissions

Admission Requirements: Minimum Requirements

- An Honours Bachelor's degree in English, or its equivalent, with an average of at least 78% in English courses, and at least 75% overall.
 - Those applying to the program holding relevant Honours degrees other than English may be admitted at the discretion of the Admissions Committee.
- A Statement of Interest, no more than 500 words, explaining your reasons for applying to the program.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Statement of interest
- Transcript(s)

Admission Requirements: References

- Number of references: 3
- Type of references: at least 2 academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements associated with their chosen study option in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).
- Students are required to complete WIL 601 Career Foundations for Work-Integrated Learning in their first academic term of their co-op program. Students must complete WIL 601 in addition to the program's course requirements.

Thesis Option: Course Requirements

No Rules

Thesis Option: Course Requirements

- Students must complete the following 4 courses:
 - 2 courses designated as Literature
 - 1 course designated as Rhetoric and Communication Design or Experimental Digital Media
 - 1 elective course from either within or outside the Department
- Students may include 2 extra-departmental graduate courses in their degree requirements, but these courses must be approved by the Graduate Committee. For a course outside the University of Waterloo, the Ontario Visiting Graduate Student (OVGS) form must be completed. For a course inside the University, the Departmental Graduate Studies Committee must approve. In either case, the Department's Graduate Office must be supplied with a syllabus in electronic form and the course must be approved before the beginning of the term in which it is scheduled to run.
- If students can demonstrate that a reading course is necessary to their overall program, they may petition the Departmental Graduate Studies Committee to allow such an independent course. Directed reading courses must be designed and submitted to the Graduate Committee by the instructor in consultation with the student, and the course outline (with rationale, reading list, assignments and schedule) must be approved by the Graduate Committee in the term prior to the one in which the course is to be run. A reading course will not be approved if a course in a similar area, or with the same faculty member, will be taught that year; if the proposed course overlaps substantially with work that is also to be credited as an MRP or thesis; or if it would not be feasible within that term's scheduling and enrolment constraints. Students are permitted to take only 1 reading course as part of the degree.
- In order to graduate, candidates must receive an average of at least 75% in their courses. If a student receives one failing grade or two grades lower than 70%, the Departmental Graduate Studies Committee will review their standing in the program and the student may be asked to withdraw from the program.

Thesis Option: Milestone Requirements

Graduate Studies Work Report I

Graduate Studies Work Report II

Master's Thesis

- Students electing the thesis option will be encouraged to have a thesis proposal approved by the end of the second academic term and the thesis bound and delivered by the end of the third academic term. The thesis will usually run from 80 to 100 pages of typescript. It will be evaluated by the supervisor and one other reader. Three copies of the approved thesis (agreeing in format with the Thesis Regulations and Guide issued by Graduate Studies and Postdoctoral Affairs) will be submitted to the Graduate Office no later than five weeks before Convocation, either in the Spring or in the Fall.

Coursework Option: Course Requirements

No Rules

Coursework Option: Course Requirements

- Students must complete the following 8 courses:
 - 4 courses designated as Literature
 - 1 course designated as Rhetoric and Communication Design or Experimental Digital Media
 - 3 electives
- Students may include 1 extra-departmental graduate course in their degree requirements, but these courses must be approved by the Graduate Committee. For a course outside the University of Waterloo, the Ontario Visiting Graduate Student (OVGS) form must be completed. For a course inside the University, the Departmental Graduate Studies Committee must approve. In either case, the Department's Graduate Office must be supplied with a syllabus in electronic form and the course must be approved before the beginning of the term in which it is scheduled to run.
- If students can demonstrate that a reading course is necessary to their overall program, they may petition the Departmental Graduate Studies Committee to allow such an independent course. Directed reading courses must be designed and submitted to the Graduate Committee by the instructor in consultation with the student, and the course outline (with rationale, reading list, assignments and schedule) must be approved by the Graduate Committee in the term prior to the one in which the course is to be run. A reading course will not be approved if a course in a similar area, or with the same faculty member, will be taught that year; if the proposed course overlaps substantially with work that is

also to be credited as an MRP or thesis; or if it would not be feasible within that term's scheduling and enrolment constraints. Students are permitted to take only 1 reading course as part of the degree.

- In order to graduate, candidates must receive an average of at least 75% in their courses. If a student receives one failing grade or two grades lower than 70%, the Departmental Graduate Studies Committee will review their standing in the program and the student may be asked to withdraw from the program.

Coursework Option: Milestone Requirements

Graduate Studies Work Report I

Graduate Studies Work Report II

Master's Research Paper Option: Course Requirements

No Rules

Master's Research Paper Option: Course Requirements

- Students must complete the following 6 courses:
 - 3 courses designated as Literature
 - 1 course designated as Rhetoric and Communication Design or Experimental Digital Media
 - 2 electives
- Students may include 1 extra-departmental graduate course in their degree requirements, but these courses must be approved by the Graduate Committee. For a course outside the University of Waterloo, the Ontario Visiting Graduate Student (OVGS) form must be completed. For a course inside the University, the Departmental Graduate Studies Committee must approve. In either case, the Department's Graduate Office must be supplied with a syllabus in electronic form and the course must be approved before the beginning of the term in which it is scheduled to run.
- If students can demonstrate that a reading course is necessary to their overall program, they may petition the Departmental Graduate Studies Committee to allow such an independent course. Directed reading courses must be designed and submitted to the Graduate Committee by the instructor in consultation with the student, and the course outline (with rationale, reading list, assignments and schedule) must be approved by the Graduate Committee in the term prior to the one in which the course is to be run. A reading course will not be approved if a course in a similar area, or with the same faculty member, will be taught that year; if the proposed course overlaps substantially with work that is also to be credited as an MRP or thesis; or if it would not be feasible within that term's scheduling and enrolment constraints. Students are permitted to take only 1 reading course as part of the degree.
- In order to graduate, candidates must receive an average of at least 75% in their courses. If a student receives one failing grade or two grades lower than 70%, the Departmental Graduate Studies Committee will review their standing in the program and the student may be asked to withdraw from the program.

Master's Research Paper Option: Milestone Requirements

Proposed

Master's Research Paper Option: Milestone Requirements

Graduate Studies Work Report I

Graduate Studies Work Report II

Master's Research Paper

- The Master's Research Paper should be 40-50 pages in length, offering an in-depth inquiry into a literary studies problem and situating the proposed solution to that problem in relation to current theory OR a 25-page creative writing project accompanied by a 20-25-page paper that describes and theorizes the project in the context of literary studies. It is roughly equivalent to two 0.50 unit weight courses and should involve a similar amount of intellectual labour. The passing grade is 70%. The Master's Research Paper may involve primary document research and will involve assessing the secondary literature on the topic. It will be supervised by a member of the faculty and have a second reader who is also a regular member of faculty (who is not a supervisor or co-supervisor), but who may belong to a different academic unit than English.
- Students planning to complete their degree through this option should arrange a supervisor and a second reader and prepare a proposal and working bibliography for the approval of the Departmental Graduate Studies Committee before the end of the second academic term.

Existing

Master's Research Paper Option: Milestone Requirements

Graduate Studies Work Report I

Graduate Studies Work Report II

Master's Research Paper

- The Master's Research Paper will be 40-50 pages long. It will be an in-depth inquiry into a problem in Literary Studies, and will situate the problem and proposed solutions in relation to selected aspects of the current state of knowledge. It may involve primary document research and will involve assessing the secondary literature on the topic. It will be supervised by a member of the faculty and have a second reader who is also a member of faculty, by who may belong to a different academic unit than English.
- Students planning to complete their degree through this option should arrange a supervisor and a second reader and prepare a proposal and working bibliography for the approval of the Departmental Graduate Studies Committee before the end of the second academic term.

Notes

- [Department of English Language and Literature website](#)
- [Master of Arts \(MA\) in English - Literary Studies - Co-operative Program future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Prerequisites

- ENGL 799 - Media Theory and Critique [View Program](#)
- ENGL 700 - Rhetorical Studies [View Program](#)
- ENGL 797 - Digital Media and Literature [View Program](#)
- ENGL 796 - Propaganda and Ideology [View Program](#)
- ENGL 780 - Studies in Genre [View Program](#)
- ENGL 755 - Studies in 19th Century American Literature [View Program](#)
- ENGL 770 - Studies in Canadian Literature [View Program](#)
- ENGL 725 - Studies in Romanticism [View Program](#)
- ENGL 710 - Studies in Renaissance Drama [View Program](#)
- ENGL 750 - Studies in Early American Literature [View Program](#)
- ENGL 715 - Studies in Renaissance Prose and Poetry [View Program](#)
- ENGL 705 - Studies in Old and Middle English Literature [View Program](#)
- ENGL 790 - Discourse Analysis [View Program](#)
- ENGL 735 - Studies in Modern British Literature [View Program](#)
- ENGL 793 - History of Rhetoric [View Program](#)

- ENGL 792 - Semiotics
- ENGL 785 - Studies in Literary Criticism
- ENGL 791 - Professional Writing
- ENGL 794 - Digital Culture
- ENGL 775 - Studies in Commonwealth Literature
- ENGL 720 - Studies in the Restoration and Eighteenth Century Literature
- ENGL 730 - Studies in Victorian Literature
- ENGL 795 - Studies in Selected Topics
- ENGL 789 - Writing Studies
- ENGL 702 - Rhetorical Research Methods

- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)

MASc in Psychology-Developmental & Communication Science - Master of Applied Science (MASc) in Psychology - Developmental and Communication Science

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
Yes

Impact on Existing Students

Current students are following the current plan and will be required to complete the coursework as expressed in the Fall 2025 Calendar.

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Psychology has two research-based options for the MASc in Psychology – Developmental and Communication Science program. They both require Masters Research Papers (MRPs). When cleaning up the Graduate Calendar last year, there was a miscommunication between the Developmental Psychology Research Field Area Head and the Graduate Officer. The changes that went through do not reflect what the degree should require for one of the options, as it currently states that the Community Internship Track is a course-based Masters with no MRP, which it is not.

The program should have one Study Option (Master’s Research Paper) and no Coursework study option. The Master’s Research Paper has two potential “Tracks” that students can follow. One track devotes more time to Community internships and the other devotes more time to lab-based research.

The credit granting system should also be updated to better align with what students do in the program, as research expectations for these programs have evolved in recent years and students are spending more hours on their research.

Currently, all students are required to take 1 statistics course, 2 core developmental psychology courses, 1 breadth course, and 3 CR/NCR courses related to their lab research and community internships. In practice though, students are actually completing the equivalent of 4 of these (and the distribution depends on the Track they choose). We propose changing this to remove 1 elective (breadth) course, and appropriately grant 4 CR/NCR courses related to internships (see below).

Also, the Calendar errantly stated that students need to enroll in PSYCH 710 for two years, which is incorrect, as this is a one-year program, so we are cleaning that up.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of Psychology

Graduate Field of Study

Psychology

Faculty

Faculty of Arts

Program/Plan Name

Master of Applied Science (MASc) in Psychology - Developmental and Communication Science

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Proposed

Study Options (New)

Master's Research Paper

Existing

Study Options (New)

Master's Research Paper / Coursework

Program Types

Internship

Admit Term(s)

Fall

Delivery Mode

On-campus

Length of Program

- 3 terms (12 months)

Registration Option(s)

Full-time

Admissions

Admission Requirements: Minimum Requirements

- Applications for admission are open to individuals who will have completed an Honours Bachelor's degree in Psychology or related, approved equivalent (e.g., Linguistics, Computer Science) by the time of entrance to the program.
- A 80% overall standing in the last two years, or equivalent, in a four-year Honours Bachelor's degree or equivalent.
- Applicants whose ultimate goal is a Doctor of Philosophy (Ph D) should apply directly to the Ph D program.
- Students accepted to the MASc in Psychology - Developmental and Communication Science program cannot transfer to the Ph D program in any of the divisions of the Psychology Department; they must reapply on the same basis as other Ph D applicants and in competition with each other. Graduate Record Examination results are required when applying to the Ph D program.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Personal statement
- Program-specific questions (PSQ)
- Transcript(s)

Admission Requirements: References

- Number of references: 3
- Type of references: academic

Requirements Information

Graduate Degree Requirements

Proposed

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).
- Students complete two types of graduate studies internships (Community Practicum and Research Lab Internship). Each student will choose one of two tracks (Track 1 or 2, defined below) to complete these graduate studies internships, based on a discussion with their advisor. The main difference between the two tracks is that in Track 1, students complete 1 term in a community practicum and 3 intensive terms completing lab-based research activities and in Track 2, students complete 3 terms in a community practicum and 3 terms of less intensive lab-based research activities.
- Note: Track 1 is likely to be of most interest to students deciding on whether to pursue further doctoral (Ph D) studies in an area related to Child Development. Track 2 is likely to be of most interest to students seeking applied careers in areas such as speech-language pathology, early childhood education, other allied health professions, teaching, etc..

Existing

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).
- Students complete two types of graduate studies internships (Community Practicum and Research Lab Internship). Each student will choose one of two tracks to complete these graduate studies internships: the Research Emphasis Track (for students in the Master's Research Paper study option) or the Community Practicum Emphasis Track (for students in the coursework study option), based on a discussion with their advisor. The main difference between the two tracks is that in the first option students have 1 term in a community practicum and more formal research activities and in the second option students complete 3 terms in a community practicum and have less research activities.
- Note: The Master's Research Paper study option is likely to be of most interest to students deciding on whether to pursue further doctoral (Ph D) studies in an area related to Child Development. The Coursework study option is likely to be of most interest to students seeking applied careers in areas such as speech-language pathology, early

Master's Research Paper Option: Course Requirements

No Rules

Master's Research Paper Option: Course Requirements

Proposed

Master's Research Paper Option: Course Requirements

Track 1

- Students must complete the following 8 courses. All courses are for a numeric grade unless they are only offered Credit/No Credit. No degree candidate can fulfil more than half of the minimum department course requirements by Credit/No Credit courses.
- When taking a course during the MASc that is extra-to-degree (i.e., not taken to meet the MASc requirements), students need to complete a course drop/add form and identify the course as extra-to-degree.
- Use of a course not listed in the course requirements below to meet a degree requirement and other course substitutions are permitted but require departmental permission. Students should confirm the appropriateness of the course substitution with their advisor and have it approved by the Area head, and Associate Chair, Graduate Studies in Psychology.
 - 1 statistics course from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 2 Developmental Psychology courses from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 680 Special Topics in Child Behaviour and Development
 - PSYCH 701 Foundations in Cognitive/Social Development: Basic
 - PSYCH 702 Foundations in Cognitive/Social Development: Social Cognitive Development
 - PSYCH 705 Foundations in Language Development: Basic Language Development
 - PSYCH 706 Foundations in Language Development: Pragmatics of Language
 - PSYCH 708 Reasoning about Ownership of Property
 - PSYCH 709 Reasoning about Beliefs and Desires
 - PSYCH 713 Theories of Pretence
 - PSYCH 810 Directed Studies (on departmentally approved topics)
 - 1 elective course from other graduate research fields outside of Developmental (e.g., not from the list of core Developmental courses above) or an approved substitute.
 - Students have the option of taking courses in other areas of Psychology and other departments on campus as their elective courses. Check the Psychology course catalogue and the Graduate schedule of classes for further information. When selecting a course outside of the Psychology Department, students should check their selection with their advisor as to its suitability and then with the Administrative Coordinator Graduate Studies and the Director of the MASc program for final approval.
 - PSYCH 820 Community Practicum I (Fall)
 - PSYCH 823 Research Apprenticeship I (Fall)
 - PSYCH 824 Research Apprenticeship II (Winter)

- PSYCH 830 Research Apprenticeship III (Spring)
- Students must also take PSYCH 710 Current Issues in Developmental Psych Seminar in the Fall and Winter terms unless departmental permission is provided otherwise. Note: PSYCH 710 is a 0.00 unit weight credit/no credit course.

Track 2

- Students must complete the following 8 courses. All courses are for a numeric grade unless they are only offered Credit/No Credit. No degree candidate can fulfil more than half of the minimum department course requirements by Credit/No Credit courses.
- When taking a course during the MASc that is extra-to-degree (i.e., not taken to meet the MASc requirements), students need to complete a course drop/add form and identify the course as extra-to-degree.
- Use of a course not listed in the course requirements below to meet a degree requirement and other course substitutions are permitted but require departmental permission. Students should confirm the appropriateness of the course substitution with their advisor and have it approved by the Area head, and Associate Chair, Graduate Studies in Psychology.
 - 1 statistics course from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 2 Developmental Psychology courses from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 680 Special Topics in Child Behaviour and Development
 - PSYCH 701 Foundations in Cognitive/Social Development: Basic
 - PSYCH 702 Foundations in Cognitive/Social Development: Social Cognitive Development
 - PSYCH 705 Foundations in Language Development: Basic Language Development
 - PSYCH 706 Foundations in Language Development: Pragmatics of Language
 - PSYCH 708 Reasoning about Ownership of Property
 - PSYCH 709 Reasoning about Beliefs and Desires
 - PSYCH 713 Theories of Pretence
 - PSYCH 810 Directed Studies (on departmentally approved topics)
 - 1 elective course from other graduate research fields outside of Developmental (e.g., not from the list of core Developmental courses above) or an approved substitute.
 - Students have the option of taking courses in other areas of Psychology and other departments on campus as their elective courses. Check the Psychology course catalogue and the Graduate schedule of classes for further information. When selecting a course outside of the Psychology Department, students should check their selection with their advisor as to its suitability and then with the Administrative Coordinator Graduate Studies and the Director of the MASc program for final approval.
 - PSYCH 820 Community Practicum I (Fall)
 - PSYCH 821 Community Practicum II (Winter)
 - PSYCH 822 Community Practicum III (Spring)
 - PSYCH 823 Research Apprenticeship I (usually enrolled in Spring)
 - Students must also take PSYCH 710 Current Issues in Developmental Psych Seminar in the Fall and Winter terms unless departmental permission is provided otherwise. Note: PSYCH 710 is a 0.00 unit weight credit/no credit course.

Existing

Master's Research Paper Option: Course Requirements

- Students must complete the following 8 courses. All courses are for a numeric grade unless they are only offered Credit/No Credit. No degree candidate can fulfil more than half of the minimum department course requirements by Credit/No Credit courses.
- When taking a course during the MASc that is extra-to-degree (i.e., not taken to meet the MASc requirements), students need to complete a course drop/add form and identify the course as extra-to-degree.
- Use of a course not listed in the course requirements below to meet a degree requirement and other course substitutions are permitted but require departmental permission. Students should confirm the appropriateness of the course substitution with their advisor and have it approved by the Area head, and Associate Chair, Graduate Studies in Psychology.
 - 1 statistics course from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 2 Developmental Psychology courses from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 680 Special Topics in Child Behaviour and Development
 - PSYCH 701 Foundations in Cognitive/Social Development: Basic
 - PSYCH 702 Foundations in Cognitive/Social Development: Social Cognitive Development
 - PSYCH 705 Foundations in Language Development: Basic Language Development
 - PSYCH 706 Foundations in Language Development: Pragmatics of Language
 - PSYCH 708 Reasoning about Ownership of Property
 - PSYCH 709 Reasoning about Beliefs and Desires
 - PSYCH 713 Theories of Pretence
 - PSYCH 810 Directed Studies (on departmentally approved topics)
 - 2 elective courses from other graduate research fields outside of Developmental (e.g., not from the list of core Developmental courses above) or an approved substitute.
 - Students have the option of taking courses in other areas of Psychology and other departments on

campus as their elective courses. Check the Psychology course catalogue and the Graduate schedule of classes for further information. When selecting a course outside of the Psychology Department, students should check their selection with their advisor as to its suitability and then with the Administrative Coordinator Graduate Studies and the Director of the MASc program for final approval.

- PSYCH 820 Community Practicum I (Fall)
- PSYCH 823 Research Apprenticeship I (Winter)
- PSYCH 824 Research Apprenticeship II (Spring)
- Students must also take PSYCH 710 Current Issues in Developmental Psych Seminar in the Fall and Winter terms for a minimum of 2 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 710 is a 0.00 unit weight credit/no credit course.

Master's Research Paper Option: Milestone Requirements

Proposed

Master's Research Paper Option: Milestone Requirements

Track 1

Graduate Studies Internship

- **1-term Community Practicum and 3-term Research Lab Internship/Apprenticeship and Research Project**

- Component 1: Community Practicum
 - This 1-term community practicum consists of one morning or afternoon (approximately 3.5-4 hours per week) and runs roughly 12 weeks starting in September or January. Completion in spring term is not permissible. Students will receive information by email about possible locations and placements for the community practicum.
 - Students complete a presentation during PSYCH 710 to discuss the internship and its relation to their program of study and/or career plans.
- Component 2: Research Lab Internship/Apprenticeship and Research Project
 - This expanded research lab experience option includes:
 - Three-term research graduate studies internship (fall/winter/spring term) in one of the research labs of one of the faculty members in the developmental area or a faculty member affiliated with the program. This research graduate studies internship consists of approximately 10 hours/week from the beginning of fall term until the last day of lectures in spring term. The research project(s) to be completed by the student in this graduate studies internship will be determined by the student and their advisor at the time of entry to the program.
 - Prior to accepting entry into the program, students should confirm the nature of the research apprenticeship with the supervising faculty member.

Master's Research Paper

- A formally written Master's Research Paper is required. The student's supervisor and one additional regular faculty member must assess and approve the Master's Research Paper.

Track 2

Graduate Studies Internship

- **3-term Community Practicum and 3-term Research Lab Internship**

- Component 1: Community Practicum
 - This 3-term community practicum consists of one morning or afternoon (approximately 3.5-4 hours) per week and runs roughly from September to the end of June. Students will receive information by email about possible locations and placements for the community practicum.
 - Students complete a presentation during PSYCH 710 to discuss the internship and its relation to their program of study and/or career plans.
- Component 2: Research Internship
 - Three-term research internship (fall/winter/spring term) in one of the research labs of one of the faculty members in the developmental area or a faculty member affiliated with the program. This research internship consists of approximately 3.5 hours/week from the beginning of fall term until the last day of lectures in spring term. The research project(s) to be completed by the student in this internship will be determined by the student and their advisor at the time of entry to the program.

Master's Research Paper

- A formally written Master's Research Paper is required. The student's supervisor and one additional regular faculty member must assess and approve the Master's Research Paper.

Existing

Master's Research Paper Option: Milestone Requirements

Graduate Studies Internship

- **Research Emphasis Track: 1-term Community Practicum and 3-term Research Lab Internship/Apprenticeship and Research Project**

- Component 1: Community Practicum
 - This 1-term community practicum consists of one morning or afternoon (approximately 3.5-4 hours per week) and runs roughly 12 weeks starting in September or January. Completion in spring term is not permissible. Students will receive information by email about possible locations and placements for the community practicum.
 - All community placements require submission of a police check and Tuberculosis (TB) test.
- Component 2: Research Lab Internship/Apprenticeship and Research Project
 - This expanded research lab experience option includes:
 - Three-term research graduate studies internship (fall/winter/spring term) in one of the research labs of one of the faculty members in the developmental division or a faculty member affiliated with the program. This research graduate studies internship consists of approximately 10 hours/week from the beginning of fall term until the last day of lectures in spring term. The research project(s) to be completed by the student in this graduate studies internship will be determined by the student and their advisor at the time of entry to the program.
 - Research Apprenticeship: 84 additional hours of work in the same research lab to equate to the time otherwise completed within a community practicum.
 - Prior to accepting entry into the program, students should confirm the nature of the research apprenticeship with the supervising faculty member.

Master's Research Paper

- A formally written Master's Research Paper is required. The student's supervisor and one additional reader must assess and approve the Master's Research Paper.

Notes

- [Department of Psychology website](#)
- [Master of Applied Science \(MASc\) in Psychology - Developmental and Communication Science future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Prerequisites

- PSYCH 621 - Advanced Clinical Research [View Program](#)
- PSYCH 747 - Cognition and Perception Seminar [View Program](#)
- PSYCH 714 - Current Topics in Social Psych Seminar [View Program](#)
- PSYCH 707 - Cognitive Neuroscience Seminar [View Program](#)
- PSYCH 710 - Current Issues in Developmental Psych Seminar [View Program](#)

PhD in Psychology - Doctor of Philosophy (PhD) in Psychology

[Top](#)

Effective Date and Career

Career
Graduate

Effective Term and Year
Spring 2026

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-10-07

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
Yes

Impact on Existing Students

The Graduate Officer will consider Graduate Specialization in Applied Data Science courses taken on a CR/NCR grading basis if completed by current students prior to Spring 2026.

Is the credential name changing?
No

Graduate Co-operative Requirements
Not Applicable

Change to Learning Outcomes
No

Rationale and Background for Change(s)

Updating the Applied Data Science Graduate Specialization requirements to specify that the courses must have a numeric

grading basis. The Ph D program in Psychology requires that all core courses in a student's Graduate Research Field must be taken for numeric grades and cannot be taken on a CR/NCR basis. This is because the concepts in the student's core Field need to be fully mastered, whereas courses taken to fulfil the breadth requirements in other Research Fields are meant to only familiarize students with broader Psychology concepts. Because obtaining the Applied Data Science Specialization implies that a student is particularly skilled and well-prepared in statistics, the courses taken for this Specialization should also be taken for a numeric grade, just as the Core courses are. This will ensure that students are mastering all the material in the courses that they use towards the Specialization, and not a more cursory understanding as we might expect when a statistics course is taken only as a breadth course on a CR/NCR basis and not for the Specialization.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of Psychology

Graduate Field of Study

Psychology

Faculty

Faculty of Arts

Program/Plan Name

Doctor of Philosophy (Ph D) in Psychology

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Admit Term(s)

Fall

Delivery Mode

On-campus

Length of Program

- The Department requires a minimum period of registration of 9 terms beyond an Honours Bachelor's degree or 6 terms beyond a Master's degree. While a Ph D may be obtained within 9 terms of an Honours BA, a period of 12 to 18 terms is typical.

Registration Option(s)

Full-time

Graduate Research Fields

- Clinical Psychology
- Cognitive Neuroscience
- Cognitive Psychology
- Developmental Psychology
- General Psychology
- Industrial/Organizational Psychology

- Social Psychology

Graduate Specializations

- Applied Data Science

Additional Program Information

- Students admitted to the Clinical Psychology field (area of research) of the Ph D program must supply a Criminal Record Check (Vulnerable Sector) to the Department of Psychology prior to being matriculated.

Admissions

Admission Requirements: Minimum Requirements

- A 80% overall standing, or equivalent, in the last two years of study in the previous degree is the minimum requirement for admission.
- Candidates applying to the Industrial/Organizational Psychology graduate research field within the program must submit results from the Graduate Record Examination (Verbal, Quantitative, and Analytic scores). These scores are optional for students applying to the Cognitive Neuroscience, Cognitive Psychology, and Developmental Psychology graduate research fields.
- Please note that in most areas a Master's degree is not required for admission into the Ph D program (the exception is Social Psychology and Clinical Psychology).
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Graduate Record Examination (GRE)
 - Required for candidates applying to the Industrial/Organizational Psychology graduate research field within the program and optional for candidates applying to the Cognitive Neuroscience, Cognitive Psychology, and Developmental Psychology graduate research fields.
- Personal statement
- Supplementary information form
- Transcript(s)

Admission Requirements: References

- Number of references: 3
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).
- Students must be admitted to one of the following Graduate Research Fields:
 - Clinical Psychology
 - Cognitive Neuroscience
 - Cognitive Psychology
 - Developmental Psychology
 - Industrial/Organizational Psychology
 - Social Psychology

Graduate Course Requirements

No Rules

Graduate Course Requirements

Proposed

Graduate Course Requirements

- Course requirements are determined by the student's previous academic background and their Graduate Research Field.
- Where applicable course requirements for students entering with a Bachelors degree or equivalent or an MA degree from the University of Waterloo in the Graduate Research Field in which they are completing their Ph D are described below. Students entering directly into a Ph D without completing an MA may be permitted to complete an MA during their Ph D. If students have relevant academic background beyond a Bachelor's degree or equivalent but have not completed the MA degree from the University of Waterloo in the Graduate Research Field in which they are completing their Ph D, then the Ph D course requirements can, when deemed appropriate, be determined in consultation with the student's advisor, the Area Head, and Associate Chair, Graduate Studies in Psychology prior to admission.
- Students enrolled in the doctoral program must complete the Department's core requirements, statistics requirements (or credit granted for evidence of a strong undergraduate statistics background) and comprehensive breadth requirements as described within each Graduate Research Field's course requirements below. Courses with a numeric grading basis must be taken to meet the core and statistics requirements unless departmental permission is provided to take a course with a Credit/No Credit grading basis. For the purposes of the breadth requirement the relevant areas are listed below. Whether a course meets a breadth requirement is determined by the Graduate Research Field. If a student is unclear about whether a course will meet their breadth requirements, then they should consult with their supervisor and area head before enrolling in the course.
 - Clinical Psychology
 - Cognitive Psychology
 - Cognitive Neuroscience
 - Developmental Psychology
 - Industrial/Organizational Psychology
 - Quantitative Methods
 - Social Psychology
- In addition to a student's Graduate Research Field, students can also complete a Graduate Specialization in Applied Data Science (for more details see below).
- All courses taken to meet degree requirements must be accepted for graduate credit by the Department of Psychology and no degree candidate can fulfil more than half of the minimum department course requirements with Credit/No Credit courses.
- Course requirements are minimum requirements only. Students may be required to take additional courses depending on their previous academic background and Graduate Research Field.
- Courses from outside the Department of Psychology may also be considered. Departmental permission is required.

Note: When selecting a course from outside of the Department of Psychology, students should check with their advisor about its suitability.

- Transfer credits may also be considered. The acceptance of transfer credits from prior registration at another university will be determined in individual cases by the Associate Dean (Graduate Studies) of the Faculty at the time of admission to the program. Transfer credits must be "unused" credits (i.e., they must not have been credited towards an earlier acquired degree or other academic credential). Transfer credits must be specified in writing at the time of departmental recommendation for admission. A minimum of 70% (University of Waterloo converted grade) is required for transfer credit.
- Courses from outside the Department of Psychology and transfer credits can usually count for no more than 2 one-term credits toward breadth requirements.
- Use of a course not listed in the course requirements below to meet a degree requirement and other course substitutions are permitted but require departmental permission. Students should confirm the appropriateness of the course substitution with their advisor and have it approved by the Area head, and Associate Chair, Graduate Studies in Psychology.
- Students pursuing the **Clinical Psychology** Graduate Research Field must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to meet the course requirements beginning Year One below.
- If a student enters the Ph D program having completed the MA in Psychology degree with a Clinical Psychology Graduate Research Field from the University of Waterloo, then the student is required to meet the course requirements beginning Year Three below in addition to completing any courses listed in Year One and Year Two not already completed. By the end of the Ph D, students need to have completed all requirements from Year One to Year Six below or approved substitutes when courses completed during both the MA and Ph D are considered. The courses are listed below in a typical sequence. Individual student's course sequences may vary, for example, based on course availability.
 - 2 statistics courses one of which must be PSYCH 630 Multiple Regression from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 4 breadth courses from other graduate research fields outside of Clinical Psychology (e.g., not from the list of core, clinical practica, or research Clinical Psychology courses below) or an approved substitute. Students need to ensure that they meet the CPA breadth requirements.
 - Year One
 - Coursework (core):
 - PSYCH 716 Adult Psychopathology
 - PSYCH 717 Psychological Assessment I
 - PSYCH 718 Psychological Assessment II
 - PSYCH 719 Ethics and Professional Issues in Clinical Psychology
 - Clinical Practica:
 - PSYCH 720A Practicum in Interviewing & Cognitive Assessment I
 - PSYCH 720B Practicum in Interviewing & Cognitive Assessment II
 - PSYCH 721A Diagnostic Assessment Practicum I
 - PSYCH 721B Diagnostic Assessment Practicum II
 - PSYCH 722C Clinical Full-Time Fieldwork Placement I (0.50 unit weight) or PSYCH 811C Clinical Part-Time Fieldwork Placement I (0.25 unit weight)
 - Research Activities:
 - PSYCH 621 Advanced Clinical Research Forum I
 - Year Two
 - Coursework (core):
 - PSYCH 723 Child Psychopathology and Psychotherapy
 - PSYCH 724 Personality & Measurement Theory
 - PSYCH 725 Cognitive Behaviour Therapy
 - Clinical Practica:
 - PSYCH 726A Practicum in Integrated Assessment I
 - PSYCH 726B Practicum in Integrated Assessment II
 - Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II (optional, by approval). Note: Students must have completed PSYCH 722C Clinical Full-Time Fieldwork Placement I or a set of 2 of PSYCH 811A, PSYCH 811B, and PSYCH 811C Clinical Part-Time Fieldwork Placement I, before they are eligible to take PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II.
 - Research Activities:
 - PSYCH 621 Advanced Clinical Research Forum II
 - Year Three
 - Coursework (core):
 - PSYCH 727 Efficacy and Program Evaluation
 - PSYCH 728 Psychotherapy: Classical Roots & Contemporary Developments
 - Clinical Practica:
 - PSYCH 729A, PSYCH 729B, PSYCH 729C Child and Adolescent Psychotherapy Practicum I, II, III
 - PSYCH 730A, PSYCH 730B, PSYCH 730C Adult Psychotherapy Practicum I, II, III
 - Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II (optional, by approval). Note: Students must have completed PSYCH 722C Clinical Full-Time Fieldwork Placement I or a set of 2 of PSYCH 811A, PSYCH 811B, and PSYCH 811C Clinical Part-Time Fieldwork Placement I, before they are eligible to take PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II.
 - Research Activities:

- PSYCH 621 Advanced Clinical Research Forum III
 - Year Four
 - Coursework (core):
 - PSYCH 731 Emotion-Focused Therapy
 - Clinical Practica:
 - PSYCH 732A, PSYCH 732B, PSYCH 732C Child and Adolescent Psychotherapy Practicum I, II, III
 - PSYCH 733A, PSYCH 733B, PSYCH 733C Adult Psychotherapy Practicum I, II, III
 - Elective: PSYCH 737A, PSYCH 737B, PSYCH 737C Emotion-Focused Therapy Practicum
 - Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II or PSYCH 739A, PSYCH 739B, PSYCH 739C Clinical Fieldwork Placement III (optional, by approval)
 - Research Activities:
 - PSYCH 621 Advanced Clinical Research Forum IV
 - Year Five (and beyond)
 - Clinical Practica:
 - PSYCH 734A, PSYCH 734B, PSYCH 734C Practicum in Supervision I, II, III (required of all students)
 - PSYCH 735A, PSYCH 735B, PSYCH 735C Child and Adolescent Psychotherapy Practicum I, II, III
 - PSYCH 736A, PSYCH 736B, PSYCH 736C Adult Psychotherapy Practicum I, II, III
 - Elective: PSYCH 737A, PSYCH 737B, PSYCH 737C Emotion-Focused Therapy Practicum
 - Elective: PSYCH 740A, PSYCH 740B, PSYCH 740C Senior Practicum I or PSYCH 741A, PSYCH 741B, PSYCH 741C Senior Practicum II or PSYCH 742A, PSYCH 742B, PSYCH 742C Senior Practicum III (optional, by approval)
 - Year Six
 - Students must compete a year of predoctoral residency, the successful completion of which results in the crediting of the Graduate Studies Clinical Internship milestone.
- Students pursuing the **Cognitive Neuroscience** Graduate Research Field must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses.
- If a student enters the Ph D having completed the MA in Psychology degree with a Cognitive Neuroscience Graduate Research Field from the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA and Ph D are considered.
 - 2 statistics courses from the following list or an approved substitute
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses in Cognitive Neuroscience including PSYCH 677A Fundamentals of Behavioural Neuroscience and PSYCH 784 Human Neuroanatomy and Neuropathology with the remaining selected from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 670 Special Topics in Behavioural Neuroscience
 - PSYCH 779A Cognitive Neuropsychology I
 - PSYCH 781 Cognitive Neuroscience of Memory
 - PSYCH 782 Visual Neuroscience
 - PSYCH 783 Neuroimaging of Cognition
 - PSYCH 785 Attention and the Brain
 - PSYCH 788 (cross-listed as HLTH-672) Epidemiologic Methods in Aging Research
 - PSYCH 789 Mind-wandering and Inattention
 - PSYCH 790 Case Studies in Neuropsychology
 - PSYCH 792 An Introduction to Methods in Computational Neuroscience
 - PSYCH 794 Cognitive Neuroscience of Face Perception
 - 4 breadth courses from other graduate research fields outside of Cognitive Neuroscience (e.g., not from the list of Cognitive Neuroscience core courses above) or an approved substitute.
 - Students must also take PSYCH 707 Cognitive Neuroscience Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Students are encouraged to take PSYCH 707 for a 5th year if they have not yet finished their Ph D. Note: PSYCH 707 is a 0.0 unit weight credit/no credit course.
- Students pursuing the **Cognitive Psychology** Graduate Research Field must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses.
- If a student enters the Ph D having completed the MA in Psychology degree with a Cognitive Psychology Graduate Research Field from the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA and Ph D are considered.
 - 2 statistics courses including PSYCH 630 Advanced Analysis of Variance with the remaining selected from the following list or an approved substitute:
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses in Cognitive Psychology from the following list or an approved substitute:

- COGSCI 600 Seminar in Cognitive Science
- PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
- PSYCH 650 Special Topics in Cognition and Perception
- PSYCH 758 Applied Practicum in Cognitive Psychology
- PSYCH 759 Research Practicum in Cognitive Psychology
- PSYCH 769 Causal Reasoning
- PSYCH 770 Basic Issues in Cognition
- PSYCH 771 Fundamentals of Behavioural Science
- PSYCH 774 Visual Cognition
- PSYCH 775 Consciousness and Cognition
- PSYCH 776 Problem Solving, Judgment and Decision Making
- PSYCH 777 Human Memory
- PSYCH 778 Attention
- PSYCH 779 Language and Reading
- PSYCH 810 Directed Studies (on departmentally approved topics)
- 4 breadth courses from other graduate research fields outside of Cognitive Psychology (e.g., not from the list of Cognitive Psychology courses above) or an approved substitute.
- Students must also take PSYCH 747 Cognitive Psychology Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 747 is a 0.0 unit weight credit/no credit course.
- Students pursuing the **Developmental Psychology** must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses.
- If a student enters the Ph D having completed the MA in Psychology degree with a Developmental Psychology Graduate Research Field from the University of Waterloo or the MAsc in Developmental and Communication Science at the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA or MAsc and Ph D are considered.
 - 2 statistics courses from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses in Developmental Psychology from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 680 Special Topics in Child Behaviour and Development
 - PSYCH 701 Foundations in Cognitive/Social Development: Basic
 - PSYCH 702 Foundations in Cognitive/Social Development: Social Cognitive Development
 - PSYCH 705 Foundations in Language Development: Basic Language Development
 - PSYCH 706 Foundations in Language Development: Pragmatics of Language
 - PSYCH 708 Reasoning about Ownership of Property
 - PSYCH 709 Reasoning about Beliefs and Desires
 - PSYCH 713 Theories of Pretense
 - PSYCH 810 Directed Studies (on departmentally approved topics)
 - 4 breadth courses from other graduate research fields outside of Developmental Psychology (i.e., not from the list of Developmental Psychology courses above) or an approved substitute.
 - Students must also take PSYCH 710 Current Issues in Developmental Psych Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 710 is a 0.00 unit weight credit/no credit course.
- Students pursuing the Industrial/Organizational Psychology Graduate Research Field are required to have completed the Master of Applied Science (MAsc) in Industrial and Organizational (I-O) Psychology degree from the University of Waterloo before entering the Ph D program. Master's degrees in I-O psychology or related fields from other universities will be considered on a case-by-case basis.
- Students pursuing the **Industrial/Organizational Psychology** Graduate Research Field must complete the following courses:
 - 2 statistics courses from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 2 core courses in Industrial/Organizational Psychology selected from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 876 The Psychology of Justice in the Workplace
 - PSYCH 877 Work Motivation
 - PSYCH 878 Job Performance
 - PSYCH 883 Organizational and Management Development
 - PSYCH 884 Special Topics in Industrial & Organizational Psychology
 - PSYCH 886 Psychology of Training
 - PSYCH 888 Negotiation, Conflict Management, and Teamwork: Theory and Practice
 - 2 breadth courses from other graduate research fields outside of Industrial/Organizational Psychology (e.g., not from the list of core Industrial/Organizational Psychology courses above) or an approved substitute.
 - Students must also take PSYCH 885 Industrial and Organizational Psychology Research Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 885 is a 0.00 unit weight credit/no credit course.
- Students in Industrial/Organizational Psychology must take all courses for a numeric grade unless they are only offered Credit/No Credit.

- Students pursuing the **Social Psychology** Graduate Research Field must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses.
- If a student enters the Ph D having completed the MA in Psychology degree with a Social Psychology Graduate Research Field from the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA and Ph D are considered.
 - Minimum 2 statistics courses from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses in Social Psychology including PSYCH 704A Social Psychology and PSYCH 870 Research Design & Methods with the remaining selected from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 690 Special Topics in Social and Personality
 - PSYCH 743 Advanced Intergroup Relations
 - PSYCH 744 Personality in Social Context
 - PSYCH 745 Close Relationships
 - PSYCH 746 Culture and the Mind
 - PSYCH 748 Self-Regulation and Motivation
 - PSYCH 749 Wisdom
 - 4 breadth courses from other graduate research fields outside of Social Psychology (i.e., not from the list of Social Psychology courses above) or an approved substitute. Up to 2 of these breadth courses may be additional statistics courses.
 - Students must also take PSYCH 714 Social Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 714 is a 0.00 unit weight credit/no credit course.
- The General Psychology Graduate Research Field is designed to capture student research trajectories that fall outside the six main Graduate Research Fields articulated above. Students cannot be admitted into the Ph D program in the General Psychology Graduate Research Field. Entry into the General Psychology Graduate Research Field and course requirements require the approval of the Associate Chair Graduate Studies in Psychology.
- Students pursuing the **General Psychology** Graduate Research Field must complete the following courses contingent upon the student's previous academic background. If a student had entered the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses. If a student had entered the Ph D having completed an MA or MASC in Psychology degree from the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA/MASC and Ph D are considered.
 - 2 statistics courses selected from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses from one or more of the Clinical Psychology, Cognitive Neuroscience, Cognitive Psychology, Developmental Psychology, Industrial/Organizational Psychology, or Social Psychology graduate research fields.
 - 4 breadth courses from other graduate research fields outside of the graduate research fields from which the core courses are selected or an approved substitute.
 - Students must also take one of PSYCH 621, PSYCH 707, PSYCH 710, PSYCH 714, PSYCH 747, PSYCH 885 (i.e., area seminars) in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 621, PSYCH 707, PSYCH 710, PSYCH 714, PSYCH 747, PSYCH 885 are 0.00 unit weight credit/no credit courses.
- Students may also choose to pursue a Graduate Specialization in **Applied Data Science**. Pursuing the Graduate Specialization in Applied Data Science requires a plan of study approved by a student's supervisor, Area Head, and Graduate Officer (please request the form from the Graduate Coordinator) detailing how the student plans to meet the requirements of their Graduate Research Field and the Graduate Specialization. Pursuing the Graduate Specialization in Applied Data Science may not be available for students pursuing all Graduate Research Fields.
- A Graduate Specialization is a University credential that is recognized on the student's transcript but not on the diploma and is intended to reflect that a student has successfully completed a set of courses that together provide an in-depth study in the area of the Graduate Specialization. A student will only obtain the Graduate Specialization on their transcript if they have completed the requirements associated with the Ph D degree and the requirements associated with the Graduate Specialization.
- The requirements for the Graduate Specialization in Applied Data Science are determined by the student's previous academic background.
- The Graduate Specialization in Applied Data Science consists of a set of 4 graduate level courses (0.50 weight) and a teaching requirement. Specified courses are those that are prescribed as part of the Graduate Specialization. Students must have completed the departmental statistics requirement to receive the Graduate Specialization in Applied Data Science and courses taken to meet that requirement cannot be used to meet the requirements of the Graduate Specialization in Applied Data Science. The requirements for the Graduate Specialization are described below.
 - Complete 4 of the following courses (or approved alternatives) with a numeric grading basis:
 - PSYCH 634 Data Management, Visualization, and Analysis
 - PSYCH 640 Special Topics in Psychology (on an approved topic related to Applied Data Science)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology

- PSYCH 810 Directed Studies (on an approved topic related to Applied Data Science)
- The teaching requirement can be completed by teaching as instructor-of-record or being a teaching assistant in a course related to applied data science in the following courses:
 - PSYCH 292 Basic Data Analysis
 - PSYCH 391 Advance Data Analysis
 - PSYCH 492 Psychological Measurement: Foundations of Research and Practice
 - PSYCH 630 ANOVA
 - PSYCH 632 Regression
 - PSYCH 634 Data Management, Visualization, and Analysis
 - PSYCH 640 Special Topics in Psychology (on an approved topic related to Applied Data Science)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - PSYCH 810 Directed Studies (on an approved topic related to Applied Data Science)
- Meeting the teaching requirement through teaching as instructor-of-record or being a teaching assistant in a course related to applied data science that is not listed or meeting the requirement via alternative means requires approval of the Graduate Officer.

Existing

Graduate Course Requirements

- Course requirements are determined by the student's previous academic background and their Graduate Research Field.
- Where applicable course requirements for students entering with a Bachelors degree or equivalent or an MA degree from the University of Waterloo in the Graduate Research Field in which they are completing their Ph D are described below. Students entering directly into a Ph D without completing an MA may be permitted to complete an MA during their Ph D. If students have relevant academic background beyond a Bachelor's degree or equivalent but have not completed the MA degree from the University of Waterloo in the Graduate Research Field in which they are completing their Ph D, then the Ph D course requirements can, when deemed appropriate, be determined in consultation with the student's advisor, the Area Head, and Associate Chair, Graduate Studies in Psychology prior to admission.
- Students enrolled in the doctoral program must complete the Department's core requirements, statistics requirements (or credit granted for evidence of a strong undergraduate statistics background) and comprehensive breadth requirements as described within each Graduate Research Field's course requirements below. Courses with a numeric grading basis must be taken to meet the core and statistics requirements unless departmental permission is provided to take a course with a Credit/No Credit grading basis. For the purposes of the breadth requirement the relevant areas are listed below. Whether a course meets a breadth requirement is determined by the Graduate Research Field. If a student is unclear about whether a course will meet their breadth requirements, then they should consult with their supervisor and area head before enrolling in the course.
 - Clinical Psychology
 - Cognitive Psychology
 - Cognitive Neuroscience
 - Developmental Psychology
 - Industrial/Organizational Psychology
 - Quantitative Methods
 - Social Psychology
- In addition to a student's Graduate Research Field, students can also complete a Graduate Specialization in Applied Data Science (for more details see below).
- All courses taken to meet degree requirements must be accepted for graduate credit by the Department of Psychology and no degree candidate can fulfil more than half of the minimum department course requirements with Credit/No Credit courses.
- Course requirements are minimum requirements only. Students may be required to take additional courses depending on their previous academic background and Graduate Research Field.
- Courses from outside the Department of Psychology may also be considered. Departmental permission is required. Note: When selecting a course from outside of the Department of Psychology, students should check with their advisor about its suitability.
- Transfer credits may also be considered. The acceptance of transfer credits from prior registration at another university will be determined in individual cases by the Associate Dean (Graduate Studies) of the Faculty at the time of admission to the program. Transfer credits must be "unused" credits (i.e., they must not have been credited towards an earlier acquired degree or other academic credential). Transfer credits must be specified in writing at the time of departmental recommendation for admission. A minimum of 70% (University of Waterloo converted grade) is required for transfer credit.
- Courses from outside the Department of Psychology and transfer credits can usually count for no more than 2 one-term credits toward breadth requirements.
- Use of a course not listed in the course requirements below to meet a degree requirement and other course substitutions are permitted but require departmental permission. Students should confirm the appropriateness of the course substitution with their advisor and have it approved by the Area head, and Associate Chair, Graduate Studies in Psychology.
- Students pursuing the **Clinical Psychology** Graduate Research Field must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to meet the course requirements beginning Year One below.
- If a student enters the Ph D program having completed the MA in Psychology degree with a Clinical Psychology Graduate Research Field from the University of Waterloo, then the student is required to meet the course requirements beginning Year Three below in addition to completing any courses listed in Year One and Year Two not already completed. By the end of the Ph D, students need to have completed all requirements from Year One to Year Six below or approved substitutes when courses completed during both the MA and Ph D are considered. The courses are listed below in a typical sequence. Individual student's course sequences may vary, for example, based on course availability.
 - 2 statistics courses one of which must be PSYCH 630 Multiple Regression from the following list or an approved substitute:

- PSYCH 630 Advanced Analysis of Variance
- PSYCH 632 Multiple Regression
- PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
- PSYCH 800 Psychometric Theory & Structural Equation Modeling
- PSYCH 801 Advanced Structural Equation Modeling
- PSYCH 803 Meta-Analysis
- PSYCH 804 Multi-Level Modeling Applications in Psychology
- 4 breadth courses from other graduate research fields outside of Clinical Psychology (e.g., not from the list of core, clinical practica, or research Clinical Psychology courses below) or an approved substitute. Students need to ensure that they meet the CPA breadth requirements.
- Year One
 - Coursework (core):
 - PSYCH 716 Adult Psychopathology
 - PSYCH 717 Psychological Assessment I
 - PSYCH 718 Psychological Assessment II
 - PSYCH 719 Ethics and Professional Issues in Clinical Psychology
 - Clinical Practica:
 - PSYCH 720A Practicum in Interviewing & Cognitive Assessment I
 - PSYCH 720B Practicum in Interviewing & Cognitive Assessment II
 - PSYCH 721A Diagnostic Assessment Practicum I
 - PSYCH 721B Diagnostic Assessment Practicum II
 - PSYCH 722C Clinical Full-Time Fieldwork Placement I (0.50 unit weight) or PSYCH 811C Clinical Part-Time Fieldwork Placement I (0.25 unit weight)
 - Research Activities:
 - PSYCH 621 Advanced Clinical Research Forum I
- Year Two
 - Coursework (core):
 - PSYCH 723 Child Psychopathology and Psychotherapy
 - PSYCH 724 Personality & Measurement Theory
 - PSYCH 725 Cognitive Behaviour Therapy
 - Clinical Practica:
 - PSYCH 726A Practicum in Integrated Assessment I
 - PSYCH 726B Practicum in Integrated Assessment II
 - Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II (optional, by approval). Note: Students must have completed PSYCH 722C Clinical Full-Time Fieldwork Placement I or a set of 2 of PSYCH 811A, PSYCH 811B, and PSYCH 811C Clinical Part-Time Fieldwork Placement I, before they are eligible to take PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II.
 - Research Activities:
 - PSYCH 621 Advanced Clinical Research Forum II
- Year Three
 - Coursework (core):
 - PSYCH 727 Efficacy and Program Evaluation
 - PSYCH 728 Psychotherapy: Classical Roots & Contemporary Developments
 - Clinical Practica:
 - PSYCH 729A, PSYCH 729B, PSYCH 729C Child and Adolescent Psychotherapy Practicum I, II, III
 - PSYCH 730A, PSYCH 730B, PSYCH 730C Adult Psychotherapy Practicum I, II, III
 - Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II (optional, by approval). Note: Students must have completed PSYCH 722C Clinical Full-Time Fieldwork Placement I or a set of 2 of PSYCH 811A, PSYCH 811B, and PSYCH 811C Clinical Part-Time Fieldwork Placement I, before they are eligible to take PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II.
 - Research Activities:
 - PSYCH 621 Advanced Clinical Research Forum III
- Year Four
 - Coursework (core):
 - PSYCH 731 Emotion-Focused Therapy
 - Clinical Practica:
 - PSYCH 732A, PSYCH 732B, PSYCH 732C Child and Adolescent Psychotherapy Practicum I, II, III
 - PSYCH 733A, PSYCH 733B, PSYCH 733C Adult Psychotherapy Practicum I, II, III
 - Elective: PSYCH 737A, PSYCH 737B, PSYCH 737C Emotion-Focused Therapy Practicum
 - Elective: PSYCH 738A, PSYCH 738B, PSYCH 738C Clinical Fieldwork Placement II or PSYCH 739A, PSYCH 739B, PSYCH 739C Clinical Fieldwork Placement III (optional, by approval)
 - Research Activities:
 - PSYCH 621 Advanced Clinical Research Forum IV
- Year Five (and beyond)
 - Clinical Practica:
 - PSYCH 734A, PSYCH 734B, PSYCH 734C Practicum in Supervision I, II, III (required of all students)
 - PSYCH 735A, PSYCH 735B, PSYCH 735C Child and Adolescent Psychotherapy Practicum I, II, III
 - PSYCH 736A, PSYCH 736B, PSYCH 736C Adult Psychotherapy Practicum I, II, III
 - Elective: PSYCH 737A, PSYCH 737B, PSYCH 737C Emotion-Focused Therapy Practicum
 - Elective: PSYCH 740A, PSYCH 740B, PSYCH 740C Senior Practicum I or PSYCH 741A, PSYCH 741B, PSYCH 741C Senior Practicum II or PSYCH 742A, PSYCH 742B, PSYCH 742C Senior Practicum III (optional, by approval)
- Year Six
 - Students must compete a year of predoctoral residency, the successful completion of which results

in the crediting of the Graduate Studies Clinical Internship milestone.

- Students pursuing the **Cognitive Neuroscience** Graduate Research Field must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses.
- If a student enters the Ph D having completed the MA in Psychology degree with a Cognitive Neuroscience Graduate Research Field from the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA and Ph D are considered.
 - 2 statistics courses from the following list or an approved substitute
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses in Cognitive Neuroscience including PSYCH 677A Fundamentals of Behavioural Neuroscience and PSYCH 784 Human Neuroanatomy and Neuropathology with the remaining selected from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 670 Special Topics in Behavioural Neuroscience
 - PSYCH 779A Cognitive Neuropsychology I
 - PSYCH 781 Cognitive Neuroscience of Memory
 - PSYCH 782 Visual Neuroscience
 - PSYCH 783 Neuroimaging of Cognition
 - PSYCH 785 Attention and the Brain
 - PSYCH 788 (cross-listed as HLTH-672) Epidemiologic Methods in Aging Research
 - PSYCH 789 Mind-wandering and Inattention
 - PSYCH 790 Case Studies in Neuropsychology
 - PSYCH 792 An Introduction to Methods in Computational Neuroscience
 - PSYCH 794 Cognitive Neuroscience of Face Perception
 - 4 breadth courses from other graduate research fields outside of Cognitive Neuroscience (e.g., not from the list of Cognitive Neuroscience core courses above) or an approved substitute.
 - Students must also take PSYCH 707 Cognitive Neuroscience Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Students are encouraged to take PSYCH 707 for a 5th year if they have not yet finished their Ph D. Note: PSYCH 707 is a 0.0 unit weight credit/no credit course.
- Students pursuing the **Cognitive Psychology** Graduate Research Field must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses.
- If a student enters the Ph D having completed the MA in Psychology degree with a Cognitive Psychology Graduate Research Field from the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA and Ph D are considered.
 - 2 statistics courses including PSYCH 630 Advanced Analysis of Variance with the remaining selected from the following list or an approved substitute:
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses in Cognitive Psychology from the following list or an approved substitute:
 - COGSCI 600 Seminar in Cognitive Science
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 650 Special Topics in Cognition and Perception
 - PSYCH 758 Applied Practicum in Cognitive Psychology
 - PSYCH 759 Research Practicum in Cognitive Psychology
 - PSYCH 769 Causal Reasoning
 - PSYCH 770 Basic Issues in Cognition
 - PSYCH 771 Fundamentals of Behavioural Science
 - PSYCH 774 Visual Cognition
 - PSYCH 775 Consciousness and Cognition
 - PSYCH 776 Problem Solving, Judgment and Decision Making
 - PSYCH 777 Human Memory
 - PSYCH 778 Attention
 - PSYCH 779 Language and Reading
 - PSYCH 810 Directed Studies (on departmentally approved topics)
 - 4 breadth courses from other graduate research fields outside of Cognitive Psychology (e.g., not from the list of Cognitive Psychology courses above) or an approved substitute.
 - Students must also take PSYCH 747 Cognitive Psychology Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 747 is a 0.0 unit weight credit/no credit course.
- Students pursuing the **Developmental Psychology** must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses.
- If a student enters the Ph D having completed the MA in Psychology degree with a Developmental Psychology Graduate Research Field from the University of Waterloo or the MASc in Developmental and Communication

Science at the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA or MASc and Ph D are considered.

- 2 statistics courses from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
- 6 core courses in Developmental Psychology from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 680 Special Topics in Child Behaviour and Development
 - PSYCH 701 Foundations in Cognitive/Social Development: Basic
 - PSYCH 702 Foundations in Cognitive/Social Development: Social Cognitive Development
 - PSYCH 705 Foundations in Language Development: Basic Language Development
 - PSYCH 706 Foundations in Language Development: Pragmatics of Language
 - PSYCH 708 Reasoning about Ownership of Property
 - PSYCH 709 Reasoning about Beliefs and Desires
 - PSYCH 713 Theories of Pretense
 - PSYCH 810 Directed Studies (on departmentally approved topics)
- 4 breadth courses from other graduate research fields outside of Developmental Psychology (i.e., not from the list of Developmental Psychology courses above) or an approved substitute.
- Students must also take PSYCH 710 Current Issues in Developmental Psych Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 710 is a 0.00 unit weight credit/no credit course.
- Students pursuing the Industrial/Organizational Psychology Graduate Research Field are required to have completed the Master of Applied Science (MASc) in Industrial and Organizational (I-O) Psychology degree from the University of Waterloo before entering the Ph D program. Master's degrees in I-O psychology or related fields from other universities will be considered on a case-by-case basis.
- Students pursuing the **Industrial/Organizational Psychology** Graduate Research Field must complete the following courses:
 - 2 statistics courses from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 2 core courses in Industrial/Organizational Psychology selected from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 876 The Psychology of Justice in the Workplace
 - PSYCH 877 Work Motivation
 - PSYCH 878 Job Performance
 - PSYCH 883 Organizational and Management Development
 - PSYCH 884 Special Topics in Industrial & Organizational Psychology
 - PSYCH 886 Psychology of Training
 - PSYCH 888 Negotiation, Conflict Management, and Teamwork: Theory and Practice
 - 2 breadth courses from other graduate research fields outside of Industrial/Organizational Psychology (e.g., not from the list of core Industrial/Organizational Psychology courses above) or an approved substitute.
 - Students must also take PSYCH 885 Industrial and Organizational Psychology Research Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 885 is a 0.00 unit weight credit/no credit course.
- Students in Industrial/Organizational Psychology must take all courses for a numeric grade unless they are only offered Credit/No Credit.
- Students pursuing the **Social Psychology** Graduate Research Field must complete the following courses contingent upon the student's previous academic background.
- If a student enters the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses.
- If a student enters the Ph D having completed the MA in Psychology degree with a Social Psychology Graduate Research Field from the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA and Ph D are considered.
 - Minimum 2 statistics courses from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses in Social Psychology including PSYCH 704A Social Psychology and PSYCH 870 Research Design & Methods with the remaining selected from the following list or an approved substitute:
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 690 Special Topics in Social and Personality
 - PSYCH 743 Advanced Intergroup Relations
 - PSYCH 744 Personality in Social Context
 - PSYCH 745 Close Relationships
 - PSYCH 746 Culture and the Mind
 - PSYCH 748 Self-Regulation and Motivation
 - PSYCH 749 Wisdom
 - 4 breadth courses from other graduate research fields outside of Social Psychology (i.e., not from the list of Social Psychology courses above) or an approved substitute. Up to 2 of these breadth courses may be additional

- statistics courses.
 - Students must also take PSYCH 714 Social Seminar in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 714 is a 0.00 unit weight credit/no credit course.
- The General Psychology Graduate Research Field is designed to capture student research trajectories that fall outside the six main Graduate Research Fields articulated above. Students cannot be admitted into the Ph D program in the General Psychology Graduate Research Field. Entry into the General Psychology Graduate Research Field and course requirements require the approval of the Associate Chair Graduate Studies in Psychology.
- Students pursuing the **General Psychology** Graduate Research Field must complete the following courses contingent upon the student's previous academic background. If a student had entered the Ph D with only a Bachelor's degree or equivalent, then the student is required to complete 12 one-term (0.50 unit weight) courses. If a student had entered the Ph D having completed an MA or MASC in Psychology degree from the University of Waterloo, then the student is required to complete 8 one-term (0.50 unit weight) courses such that students meet all of the course requirements listed below when courses completed during both the MA/MASC and Ph D are considered.
 - 2 statistics courses selected from the following list or an approved substitute:
 - PSYCH 630 Advanced Analysis of Variance
 - PSYCH 632 Multiple Regression
 - PSYCH 640 Special Topics in Psychology (on departmentally approved topics)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - 6 core courses from one or more of the Clinical Psychology, Cognitive Neuroscience, Cognitive Psychology, Developmental Psychology, Industrial/Organizational Psychology, or Social Psychology graduate research fields.
 - 4 breadth courses from other graduate research fields outside of the graduate research fields from which the core courses are selected or an approved substitute.
 - Students must also take one of PSYCH 621, PSYCH 707, PSYCH 710, PSYCH 714, PSYCH 747, PSYCH 885 (i.e., area seminars) in the Fall and Winter terms for a minimum of 4 years unless departmental permission is provided otherwise, or the student completes the program early. Note: PSYCH 621, PSYCH 707, PSYCH 710, PSYCH 714, PSYCH 747, PSYCH 885 are 0.00 unit weight credit/no credit courses.
- Students may also choose to pursue a Graduate Specialization in **Applied Data Science**. Pursuing the Graduate Specialization in Applied Data Science requires a plan of study approved by a student's supervisor, Area Head, and Graduate Officer (please request the form from the Graduate Coordinator) detailing how the student plans to meet the requirements of their Graduate Research Field and the Graduate Specialization. Pursuing the Graduate Specialization in Applied Data Science may not be available for students pursuing all Graduate Research Fields.
- A Graduate Specialization is a University credential that is recognized on the student's transcript but not on the diploma and is intended to reflect that a student has successfully completed a set of courses that together provide an in-depth study in the area of the Graduate Specialization. A student will only obtain the Graduate Specialization on their transcript if they have completed the requirements associated with the Ph D degree and the requirements associated with the Graduate Specialization.
- The requirements for the Graduate Specialization in Applied Data Science are determined by the student's previous academic background.
- The Graduate Specialization in Applied Data Science consists of a set of 4 graduate level courses (0.50 weight) and a teaching requirement. Specified courses are those that are prescribed as part of the Graduate Specialization. Students must have completed the departmental statistics requirement to receive the Graduate Specialization in Applied Data Science and courses taken to meet that requirement cannot be used to meet the requirements of the Graduate Specialization in Applied Data Science. The requirements for the Graduate Specialization are described below.
 - Complete 4 of the following (or approved alternatives):
 - PSYCH 634 Data Management, Visualization, and Analysis
 - PSYCH 640 Special Topics in Psychology (on an approved topic related to Applied Data Science)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - PSYCH 810 Directed Studies (on an approved topic related to Applied Data Science)
 - The teaching requirement can be completed by teaching as instructor-of-record or being a teaching assistant in a course related to applied data science in the following courses:
 - PSYCH 292 Basic Data Analysis
 - PSYCH 391 Advance Data Analysis
 - PSYCH 492 Psychological Measurement: Foundations of Research and Practice
 - PSYCH 630 ANOVA
 - PSYCH 632 Regression
 - PSYCH 634 Data Management, Visualization, and Analysis
 - PSYCH 640 Special Topics in Psychology (on an approved topic related to Applied Data Science)
 - PSYCH 800 Psychometric Theory & Structural Equation Modeling
 - PSYCH 801 Advanced Structural Equation Modeling
 - PSYCH 803 Meta-Analysis
 - PSYCH 804 Multi-Level Modeling Applications in Psychology
 - PSYCH 810 Directed Studies (on an approved topic related to Applied Data Science)
- Meeting the teaching requirement through teaching as instructor-of-record or being a teaching assistant in a course related to applied data science that is not listed or meeting the requirement via alternative means requires approval of the Graduate Officer.

Milestone Requirements

Ph D Thesis

- The Department requires a successful defense of the Ph D Thesis.
- Students must be admitted to one of the following Graduate Research Fields:
 - Clinical Psychology
 - Cognitive Neuroscience
 - Cognitive Psychology
 - Developmental Psychology
 - Industrial/Organizational Psychology
 - Social Psychology
- A Graduate Research Field is a University credential that is recognized on the student's transcript and is intended to reflect that a student has successfully completed research concentrated in the area of the Graduate Research Field. The Department, represented by the student's supervisor and examining committee, must assess whether a student's completed research warrants the field designation at the time of degree completion. To obtain the Graduate Research Field designation, students must also complete the required courses associated with their chosen Graduate Research Field outlined in the above course requirements section.

Notes

- [Department of Psychology website](#)
- [Doctor of Philosophy \(Ph D\) in Psychology future students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Arts

Dependencies

Prerequisites

- PSYCH 621 - Advanced Clinical Research [View Program](#)
- PSYCH 747 - Cognition and Perception Seminar [View Program](#)
- PSYCH 714 - Current Topics in Social Psych Seminar [View Program](#)
- PSYCH 707 - Cognitive Neuroscience Seminar [View Program](#)
- PSYCH 710 - Current Issues in Developmental Psych Seminar [View Program](#)
- PSYCH 885 - Industrial & Organizational Psychology Research Seminar [View Program](#)

Prior to form submission, review the [instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

Faculty: Arts

Effective date: Term: Spring Year: 2026

Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Choose an item.
- Inactivate: Choose an item.
- Revise: from Choose an item. to Choose an item.

Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:
Course subject code, Course number, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

Removing the department consent requirement from the courses listed below and adding an "Enrolled in MA in History" prerequisite.

Course elements (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HIST

Course numbers and titles:

- 1) 601 Canadian History I
- 2) 602 Canadian History II
- 3) 603 Nationalism and Ethnic Policies of Multinational States
- 4) 604 Theory and Practice of Insurgency and Counterinsurgency: Historical and Contemporary Issues
- 5) 606 International Development in Historical Perspective
- 6) 607 Human Rights in Historical Perspective I
- 7) 610 War and Society in the Twentieth Century
- 8) 614 Space, Identity and Culture: Reading in Canadian Social History
- 9) 620 Early Modern History I
- 10) 621 Early Modern History II
- 11) 622 Microhistory and the Lost Peoples of Europe

- 12) 624 Environmental & Climate History, Premodern
- 13) 626 Modern European History I
- 14) 627 Modern European History II
- 15) 632 History of the United States I
- 16) 633 History of the United States II
- 17) 635 Race in Modern History I
- 18) 636 Race in Modern History II
- 19) 640 Digital History
- 20) 651 Historians and Public Policy
- 21) 653 Public History Interpretation
- 22) 660 Transnational and Global History: Old Problems and New Directions
- 23) 691A Directed Studies
- 24) 691B Directed Studies
- 25) 691C Directed Studies

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description:

Course component(s): Choose an item. Choose an item. Choose an item. Choose an item.

Primary course component: Choose an item.

Requisites (identify antirequisites, corequisites, or prerequisites if applicable to the course):

Prerequisites: Enrolled in MA in History

Special topics course: Yes No

Special topics course total completions allowed (max. 30):

Can students enrol in multiple sections of the same special topics course in the same term? Yes No

Cross-listed course: Yes No

If yes, list the course subject code(s) and number(s) that this course is/will be cross-listed with:

Note: cross-listed courses must share all course elements except the subject code(s), course number(s), and requisites, and require a separate Graduate Studies Course/Milestone form submission for each course.

Rationale for request:

This change would have no major impact on students. Previously, all courses in the Department of History required departmental consent to enroll at both the Master's and the doctoral level in order to ensure fair access to all Tri-University students pursuing coursework at UW. Upon a recent examination of the registration process for the Tri-U, it was determined that this type of consent adds unnecessary administrative work. By removing the departmental consent required and adding program specific prerequisites, it will allow UW History graduate students to enroll themselves in their courses without the assistance of the department. Tri-U OVGS enrolment occurs before open enrolment for UW students, so Laurier and Guelph students will not be affected by the change.

Form completed by: Robyn Wilkinson

Reviewed by GSPA (for GSPA use only) **date** (mm/dd/yy): 01/13/26

Department/School approval date (mm/dd/yy): 01/13/26

Graduate Faculty Sub-Committee approval date (mm/dd/yy):

Faculty Council approval date (mm/dd/yy):

Prior to form submission, review the [instructions](#). For questions about the form submission, contact [Trevor Clews](#), Graduate Studies and Postdoctoral Affairs (GSPA).

Faculty: Arts

Effective date: Term: Spring Year: 2026

Milestone

Note: milestone changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Choose an item.
- Inactivate: Choose an item.
- Revise: from Choose an item. to Choose an item.

Course

Note: some course changes also require the completion/submission of the [Graduate Studies Program Revision Template](#).

- New: Complete all course elements below
- Inactivate: Complete the following course elements:
Course subject code, Course number, Course title
- Revise: Complete all course elements below to reflect the proposed change(s) and identify the course elements being revised (*e.g. Course description, Course title*):

Removing the department consent requirement from the courses listed below and adding an "Enrolled in PhD in History" prerequisite.

Course elements (complete as indicated above. Review the [glossary of terms](#) for details on course elements)

Course subject code: HIST

Course numbers and titles:

- 1) 701 Major Field Oral Qualifying Examination
- 2) 704 Major Field Written Qualifying Examination
- 3) 710 Canadian History Major Field
- 4) 714 Early Modern European History Major Field
- 5) 715 Modern European History Major Field
- 6) 719 War and Society Major Field
- 7) 725 Cold War Era History Major Field
- 8) 726 Medieval History Major Field
- 9) 727 World History Major Field
- 10) 728 Indigenous History Major Field
- 11) 760 Canadian History Minor Area Seminar

- 12) 761 British History Minor Area Seminar
- 13) 762 Scottish History Minor Area Seminar
- 14) 763 Community Studies Minor Area Seminar
- 15) 764 Early Modern European History Minor Area Seminar
- 16) 765 Modern European History Minor Area Seminar
- 17) 766 Gender, Women and Family Minor Area Seminar
- 18) 767 Race, Class, Imperialism and Slavery Minor Area Seminar
- 19) 768 United States Minor Area Seminar
- 20) 769 International Relations Minor Area Seminar
- 21) 770 Science, Medicine and Technology Minor Area Seminar
- 22) 771 Minor Area of Concentration
- 23) 775 Cold War Era History Minor Area Seminar
- 24) 776 Medieval History Minor Area Seminar
- 25) 777 World History Minor Area Seminar
- 26) 778 Indigenous History Minor Area Seminar

Grading basis: Numerical

Course credit weight: Choose an item.

Course consent required: Not required

Course description:

Course component(s): Choose an item. Choose an item. Choose an item. Choose an item.

Primary course component: Choose an item.

Requisites (identify antirequisites, corequisites, or prerequisites if applicable to the course):

Prerequisites: Enrolled in PhD in History

Special topics course: Yes No

Special topics course total completions allowed (max. 30):

Can students enrol in multiple sections of the same special topics course in the same term? Yes No

Cross-listed course: Yes No

If yes, list the course subject code(s) and number(s) that this course is/will be cross-listed with:

Note: cross-listed courses must share all course elements except the subject code(s), course number(s), and requisites, and require a separate Graduate Studies Course/Milestone form submission for each course.

Rationale for request:

This change would have no major impact on students. Previously, all courses in the Department of History required departmental consent to enroll at both the Master's and the doctoral level in order to ensure fair access to all Tri-University students pursuing coursework at UW. Upon a recent examination of the registration process for the Tri-U, it was determined that this type of consent adds unnecessary administrative work. By removing the departmental consent required and adding program specific prerequisites, it will allow UW History graduate students to enroll themselves in their courses without the assistance of the department. Tri-U OVGS enrolment occurs before open enrolment for UW students, so Laurier and Guelph students will not be affected by the

change.

Form completed by: Robyn Wilkinson

Reviewed by GSPA (for GSPA use only) **date** (mm/dd/yy): 01/13/26

Department/School approval date (mm/dd/yy): 01/13/26

Graduate Faculty Sub-Committee approval date (mm/dd/yy):

Faculty Council approval date (mm/dd/yy):

Date 2026/04/08

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Meeting Information

Agenda Page Title

SGC - Consent Agenda - Faculty of Engineering - April 16, 2026

Career Level
Graduate,

Faculty/Unit
Engineering

Date
2026-04-16

Summary

Course Proposals:

1) Conrad School of Entrepreneurship and Business:

BE:

8 course revisions

3 new courses

BET:

4 course revisions

7 new courses

2) Electrical and Computer Engineering:

16 course revisions

3) Management Science and Engineering:

1 course revision

3 new courses

4) Mechanical and Mechatronics Engineering:

DM:

15 courses being inactivated

ME:

1 new course

Program Proposals:

1) Mechanical and Mechatronics Engineering:

1.1) MEng in Mechanical and Mechatronics Engineering

1.2) MEng in Mechanical and Mechatronics Engineering - Co-operative Program

1.3) MEng in Mechanical and Mechatronics Engineering - Health Technologies - Co-operative Program

a) Removing the English for Multilingual Speakers (EMLS) technical/professional course from the course requirements.

Course Proposals

Courses: Retire

Code	Title	Type	Workflow Step
DM 700	Numerical Simulation of Sheet Metal Forming	Courses	SGC, Senate Graduate Council (SGC)
DM 701	Metal Forming	Courses	SGC, Senate Graduate Council (SGC)
DM 702	Surface Machining	Courses	SGC, Senate Graduate Council (SGC)
DM 712	Automation and Intelligent Manufacturing	Courses	SGC, Senate Graduate Council (SGC)
DM 713	Life Extension	Courses	SGC, Senate Graduate Council (SGC)
DM 714	Industrial Noise Analysis and Control	Courses	SGC, Senate Graduate Council (SGC)
DM 720	Design: Materials Selection	Courses	SGC, Senate Graduate Council (SGC)
DM 722	Mechatronics Engineering	Courses	SGC, Senate Graduate Council (SGC)
DM 723	Sensors, Actuators & Interfacing	Courses	SGC, Senate Graduate Council (SGC)
DM 730	Welding	Courses	SGC, Senate Graduate Council (SGC)
DM 766	Strategic Management of Technology	Courses	SGC, Senate Graduate Council (SGC)
DM 782	Integrating Product Development and Manufacturing	Courses	SGC, Senate Graduate Council (SGC)
DM 784	Product Development Planning and Execution	Courses	SGC, Senate Graduate Council (SGC)
DM 790	Logistics and Supply Chain Management	Courses	SGC, Senate Graduate Council (SGC)
DM 791	Management of Quality	Courses	SGC, Senate Graduate Council (SGC)

Courses: New

Code	Title	Type	Workflow Step
BE 630	Sales	Courses	SGC, Senate Graduate Council (SGC)
BE 645	AI Business Applications	Courses	SGC, Senate Graduate Council (SGC)
BE 650	Digital Transformations	Courses	SGC, Senate Graduate Council (SGC)
BET 604A	New Technology-based Venture Creation: Part 1	Courses	SGC, Senate Graduate Council (SGC)
BET 604B	New Technology-based Venture Creation: Part 2	Courses	SGC, Senate Graduate Council (SGC)
BET 613	Corporate Finance for the Technology-based Organization	Courses	SGC, Senate Graduate Council (SGC)
BET 615A	Corporate Innovation and Consulting: Part 1	Courses	SGC, Senate Graduate Council (SGC)
BET 615B	Corporate Innovation and Consulting: Part 2	Courses	SGC, Senate Graduate Council (SGC)
BET 617	Product Management for Digital and Tech-enabled Organizations	Courses	SGC, Senate Graduate Council (SGC)
BET 640	Emerging Technologies	Courses	SGC, Senate Graduate Council (SGC)

ME 698	Directed MEng Research Project	Courses	SGC, Senate Graduate Council (SGC)
MSE 682	Organizational Strategy and Innovation	Courses	SGC, Senate Graduate Council (SGC)
MSE 683	Analytics and Decision-Making	Courses	SGC, Senate Graduate Council (SGC)
MSE 689	Statistical Learning and Data Science	Courses	SGC, Senate Graduate Council (SGC)

Courses: Changes

Code	Title	Type	Workflow Step
BE 600	Leadership	Courses	SGC, Senate Graduate Council (SGC)
BE 601	Introduction to Financial and Managerial Accounting	Courses	SGC, Senate Graduate Council (SGC)
BE 602	Data Analysis and Management	Courses	SGC, Senate Graduate Council (SGC)
BE 603	Operations and Supply Chain Management	Courses	SGC, Senate Graduate Council (SGC)
BE 604	Marketing Management	Courses	SGC, Senate Graduate Council (SGC)
BE 605	Project Management	Courses	SGC, Senate Graduate Council (SGC)
BE 620	Business Strategy	Courses	SGC, Senate Graduate Council (SGC)
BE 680	Consulting	Courses	SGC, Senate Graduate Council (SGC)
BET 603	Entrepreneurial Finance for the Technology-based Enterprise	Courses	SGC, Senate Graduate Council (SGC)
BET 604	New Technology-based Venture Creation	Courses	SGC, Senate Graduate Council (SGC)
BET 605	Foundations of Accounting and Finance	Courses	SGC, Senate Graduate Council (SGC)
BET 615	Corporate Innovation and Consulting	Courses	SGC, Senate Graduate Council (SGC)
ECE 609	Engineering Analysis of Living Cells	Courses	SGC, Senate Graduate Council (SGC)
ECE 613	Image Processing and Visual Communication	Courses	SGC, Senate Graduate Council (SGC)
ECE 614	Communications Over Fading Dispersive Channels	Courses	SGC, Senate Graduate Council (SGC)
ECE 621	Computer Organization	Courses	SGC, Senate Graduate Council (SGC)
ECE 627	Register-transfer-level Digital Systems	Courses	SGC, Senate Graduate Council (SGC)
ECE 635	Fabrication in the Nanoscale: Principles, Technology, & Applications	Courses	SGC, Senate Graduate Council (SGC)
ECE 657D	Neural Networks and Deep Learning	Courses	SGC, Senate Graduate Council (SGC)
ECE 659	Intelligent Sensors & Wireless Sensor Networks	Courses	SGC, Senate Graduate Council (SGC)
ECE 663	Energy Processing	Courses	SGC, Senate Graduate Council (SGC)

ECE 676B	Experimental Quantum Engineering	Courses	SGC, Senate Graduate Council (SGC)
ECE 676C	Programming of Quantum Computing Algorithms	Courses	SGC, Senate Graduate Council (SGC)
ECE 676D	Superconducting Quantum Circuits	Courses	SGC, Senate Graduate Council (SGC)
ECE 751	Distributed and Network-Centric Computing	Courses	SGC, Senate Graduate Council (SGC)
ECE 752	Foundations of Multi-agent Systems	Courses	SGC, Senate Graduate Council (SGC)
ECE 774	Radio and Wireless Systems	Courses	SGC, Senate Graduate Council (SGC)
ECE 787	Social Robotics	Courses	SGC, Senate Graduate Council (SGC)
MSE 630	Human Computer Interaction	Courses	SGC, Senate Graduate Council (SGC)

Programs & Plans Proposals

Programs & Plans: Retire
No proposals have been added.

Programs & Plans: Major Modifications
No proposals have been added.

Programs & Plans: Minor Modifications

Code	Title	Type	Workflow Step
MEng in Mechanical & Mechatronics Engineering	Master of Engineering (MEng) in Mechanical and Mechatronics Engineering	Programs	SGC, Senate Graduate Council (SGC)
MEng in Mechanical & Mechatronics Engineering-Co-op	Master of Engineering (MEng) in Mechanical and Mechatronics Engineering - Co-operative Program (direct entry)	Programs	SGC, Senate Graduate Council (SGC)
MEng in Mechanical & Mechatronics Engineering-Health Technologies-Co-op	Master of Engineering (MEng) in Mechanical and Mechatronics Engineering - Health Technologies - Co-operative Program (direct entry)	Programs	SGC, Senate Graduate Council (SGC)

Regulations Proposals

Regulations: Retire
No proposals have been added.

Regulations: New
No proposals have been added.

Regulations: Changes
No proposals have been added.

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Spring 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	11069	1

Proposal Details

Proposal Type Retire	Academic Unit Approval 2025-11-21
Last Offering of Course -	Retired Impact No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty Faculty of Engineering	Academic Unit Department of Mechanical and Mechatronics Engineering
Subject Code DM	Number 700
Title Numerical Simulation of Sheet Metal Forming	
Abbreviated Title Simulation-Sheet Metal Working	

Description

This course will cover numerical simulation techniques used to accurately and efficiently simulate industrial sheet forming processes. A variety of finite element based techniques will be considered including explicit and so-called single and multi-step methods. * Review of sheet forming concepts * Numerical modeling techniques * Contact algorithms, friction * Material modelling, sheet anisotropy, use of FLDs in formability prediction * Spring - back and trimming * Survey of commercial codes, Pre- and post- processing, CAD interface.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add**

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

DM 701 - Metal Forming

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Proposed Effective Term and Year Spring 2026	11070	1
	Existing Effective Term and Year Fall 2023		

Proposal Details

Proposal Type
Retire

Academic Unit Approval
2025-11-21

Last Offering of Course
-

Retired Impact
No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been

offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

701

Title

Metal Forming

Abbreviated Title

Metal Forming

Description

Course starts with a brief introduction to the theory of plasticity, directly applicable to the mathematical and physical analysis of problems in metal forming. A discussion of tribology and material attributes follows. Metallurgical phenomena, accompanying hot and cold forming of metals, are discussed. Application to bulk metal forming (rolling, extrusion, drawing and forging) and sheet metal forming (deep drawing, stretch forming, hydroforming) are considered. The use and limitations are demonstrated. Examples from laboratory experiments and from industrial applications are used to complement the presentation.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

DM 702 - Surface Machining

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
--------	-------------------------	-----------------	-----------------

Graduate

11071

1

Proposed
Effective Term and Year Spring 2026
Existing
Effective Term and Year Fall 2023

Proposal Details

Proposal Type

Retire

Academic Unit Approval

2025-11-21

Last Offering of Course

-

Retired Impact

No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

702

Title

Surface Machining

Abbreviated Title

Surface Machining

Description

Surface Machining represents a major activity in many industries, like in the manufacture of tools and dies. This course addresses the issues of surface representation, and generation of the tool path on CNC milling machines for roughing and finishing of flat and sculptured surfaces. * Introduction to NC Machining: components of CNC machining centre, part programming, programming using a commercial package * Surface definition and properties: Bezier, B-Splines and NURBS, computation of normal, curvature and curvature directions etc., data exchange protocols * Rough Machining and Surfaces: tool wear and breakage, dynamics in surface machining, tool path planning for rough machining of surfaces * Finish

Machining of Surfaces: Tool positioning strategies in 3 and 5 axis machining, tool path planning for finish milling, gouge detection and avoidance, verification of tool path.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

DM 712 - Automation and Intelligent Manufacturing

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Proposed	11072	1
	Effective Term and Year Spring 2026		
	Existing		
	Effective Term and Year Fall 2023		

Proposal Details

Proposal Type Retire	Academic Unit Approval 2025-11-21
Last Offering of Course -	Retired Impact No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses

have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

712

Title

Automation and Intelligent Manufacturing

Abbreviated Title

Intelligent Manufacturing

Description

Robotics: 7 Operating principles: physical configuration & workspace, joint position measurement and control, robot controller operation 7 Kinematics: coordinate frames and transformations, forward and inverse kinematics 7 Programming: motion types & applications, digital I/O and program flow control 7 Sensor-based operation: seam tracking & force feedback control Machine Vision: 7 Operating Principles: imaging sensors, image representation and transmission, image acquisition and storage 7 Image Processing: pixel processing (LUTS), area processing (filtering) 7 Image Analysis: boundary tracing, template matching, segmentation Communication Networks: 7 Data Transmission: asynchronous and synchronous data transmission, baseband and broadband, network topologies 7 Media access control: Ethernet CSMA/CD, Token bus 7 ISO-OSI model: seven layer model functionality 7 MMS: Manufacturing Message Standard concepts and issues

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

DM 713 - Life Extension

[Top](#)

Effective Date & Career

Career

Effective Term and Year

Quest Course ID

Offering Number

Graduate

11073

1

Proposed
Effective Term and Year Spring 2026
Existing
Effective Term and Year Fall 2023

Proposal Details

Proposal Type

Retire

Academic Unit Approval

2025-11-21

Last Offering of Course

-

Retired Impact

No

Rationale for Change

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Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

713

Title

Life Extension

Abbreviated Title

Life Extension

Description

Plant Life Management, including configuration management; time dependent deterioration in plant and assessment of failure probabilities; risk analysis which considers probability of failure and consequences of failure; risk based in-service inspection and various other inputs for safety cases that should (must) be prepared when considering life extension.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

DM 714 - Industrial Noise Analysis and Control

[Top](#)

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<p>Proposed</p> <p>Effective Term and Year Spring 2026</p> <p>Existing</p> <p>Effective Term and Year Fall 2023</p>	11074	1

Proposal Details

Proposal Type
Retire

Academic Unit Approval
2025-11-21

Last Offering of Course
-

Retired Impact
No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

714

Title

Industrial Noise Analysis and Control

Abbreviated Title

Industrial Noise Control

Description

Government regulations are becoming tighter regarding noise levels at industrial installations. This course is aimed at acquiring the necessary design tools to implement different measures for reducing noise generated from sources encountered in typical manufacturing environments. * Fundamentals of acoustics, noise analysis and measurement: Acoustic quantities, noise propagation, free and reverberant fields, room acoustics, near and far fields, noise measurements: frequency spectrum, octave and fraction octave filters, microphones, sound level meters, sound intensity measurements. * Noise Control: Response of the human ear to noise, Government regulations, noise level curves, noise control using sound absorption, using walls and partial partitions, using full enclosures and using vibration isolation.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

DM 720 - Design: Materials Selection

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and
Year
Spring 2026

Quest Course ID

11075

Offering Number

1

Existing
Effective Term and Year
Fall 2023

Proposal Details

Proposal Type

Retire

Academic Unit Approval

2025-11-21

Last Offering of Course

-

Retired Impact

No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

720

Title

Design: Materials Selection

Abbreviated Title

Design: Materials Selection

Description

The purpose of this course is to make sound, intelligent selections of materials for safe and efficient structures or components. A unique feature of the course is that it contains the methodology of design and how materials selection should be simultaneously chosen at every stage of the design process - concurrent engineering. The materials selection should be effected through consideration not only of their properties, their processing, and their fabrication, but also their recyclability, recovery, and disposal after their use, involving the concept of life-cycle analysis. * Physical, chemical and mechanical properties of materials that are important for the design of the structure of a component. Microstructure insensitive properties such as density, modulus and coefficient of linear expansion which are unaffected by processing. * Properties such as strength, fracture toughness, fatigue and creep that are affected by processing and the resultant microstructure. How processing influences these properties including corrosion resistance, and the manner in which they change during the fabrication of components. * Processing of metals and alloys. Solid state equilibrium and non-equilibrium transformations. Melting, solidification and casting of metals, including welding. Plastic deformation including rolling and annealing. Thermal processes such as surface treatments. * Processing of non-metals. Extrusion, injection molding, thermoforming of

thermoplastic polymers. Fabrication of thermosets. Solidification of glasses. Superplastic forming and forming of glasses. Preparation and fabrication of composite materials. * Design and selection of materials. Performance and selection of ferrous materials for engineering design, considering low alloy steels, tool steels, stainless steels and cast irons. * Performance and selection of non-ferrous materials for engineering performance considering aluminum, magnesium, copper and nickel alloys. * Performance and selection of polymers, ceramics and composites for engineering performance.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

DM 722 - Mechatronics Engineering

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Proposed	11762	1
	Effective Term and Year Spring 2026		
	Existing		
	Effective Term and Year Fall 2023		

Proposal Details

Proposal Type Retire	Academic Unit Approval 2025-11-21
Last Offering of Course -	Retired Impact No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses

have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

722

Title

Mechatronics Engineering

Abbreviated Title

Mechatronics Engineering

Description

Mechatronics is the integration of mechanical, electrical, computer and control engineering. This course deals with the analytical tools required to design, model, analyze and control mechatronic systems. Properties of linear and nonlinear systems, system identification methods, process modelling, sensor and actuators, computer interfacing, computer control of machines and processes (PLC and PC based). Laboratories will include PLC based automation applications and PC based advanced robotics.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

DM 723 - Sensors, Actuators & Interfacing

[Top](#)

Effective Date & Career

Career

Effective Term and Year

Quest Course ID

Offering Number

Graduate

12130

1

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2023

Proposal Details

Proposal Type

Retire

Academic Unit Approval

2025-11-21

Last Offering of Course

-

Retired Impact

No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

723

Title

Sensors, Actuators & Interfacing

Abbreviated Title

Sensors, Actuators Interfacing

Description

This course presents the theory and design implementation of several types of sensors and actuators. Sensors discussed include solid-state optical sensors, temperature sensors, velocity sensors, piezoelectric sensors and accelerometers, strain and force sensors, analogue and digital position sensors, and flow sensors, and magnetometers and Hall effect sensors. Theory and modeling of several common actuators including different electric motors, hydraulic and pneumatic motors and cylinders, as well as piezoelectric and magnetostrictive actuators are presented. Component integration, design considerations, and interfacing are studied through examples selected from applications of machine tools, mechatronics, robotics, aerospace

systems, and ground vehicles. Four laboratory projects in robotics, vision, pneumatics, and hydraulic systems reinforce understanding of the topics.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

DM 730 - Welding

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Proposed	11076	1
	Effective Term and Year Spring 2026		
	Existing		
	Effective Term and Year Fall 2023		

Proposal Details

Proposal Type
Retire

Academic Unit Approval
2025-11-21

Last Offering of Course
-

Retired Impact
No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses

have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

730

Title

Welding

Abbreviated Title

Welding

Description

Features and advantages of the various welding processes. Welding arc characteristics. Temperature distributions around welds. Metallurgy of the weld metal and heat affected zone in various alloys, including carbon and stainless steels, and aluminum alloys. Origin of various weld defects and methods of detecting them. Static and dynamic design of welded joints. Residual stresses, distortion and fracture of welds.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

DM 766 - Strategic Management of Technology

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Quest Course ID

11077

Offering Number

1

Spring 2026

Existing

Effective Term and Year
Fall 2023

Proposal Details

Proposal Type

Retire

Academic Unit Approval

2025-11-21

Last Offering of Course

-

Retired Impact

No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

766

Title

Strategic Management of Technology

Abbreviated Title

Technology Management

Description

This course focuses on the strategic management of technology and innovation established firms. We take an evolutionary process perspective. The fundamental ideas underlying the perspective are: (1) that a firm's technology strategy emerges from its technological competencies and capabilities, (2) that the technology strategy is shaped by evolutionary external (environmental) and internal (organizational) Forces. The course draws on strategic management, economics and organization theory for analytical tools to address important challenges faced by senior and middle managers in technology based firms. The course is practice oriented. Case studies of various real life situations will require in-depth analysis to be complemented with specific action recommendations. * To develop an awareness of the range, scope and complexity of the issues and problems related to strategic management of technology and innovation * To develop an understanding of the state of the art of strategic management of technology and innovation * To learn how to practically apply theoretical concepts in strategic management of technology and innovation.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

DM 782 - Integrating Product Development and Manufacturing

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Proposed	11078	1
	Effective Term and Year Spring 2026		
	Existing		
	Effective Term and Year Fall 2023		

Proposal Details

Proposal Type
Retire

Academic Unit Approval
2025-11-21

Last Offering of Course
-

Retired Impact
No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

782

Title

Integrating Product Development and Manufacturing

Abbreviated Title

Integrated Manufacturing

Description

This course covers the latest managerial tools on how to integrate the engineering design and manufacturing functions for best overall quality and shortest product development lead time. The scope of the course is multidisciplinary: we will cover both the analytical (quantitative) and qualitative aspects. * Understanding the conflicting constraints and demands on both engineering design and manufacturing * Potential trade-offs between decreased development time and increased product quality * Tools and methods for enhanced interaction: Staggered product release, Quality Function Deployment, rapid prototyping, modular design, CAD/CAM

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Spring 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	11079	1

Proposal Details

Proposal Type Retire	Academic Unit Approval 2025-11-21
Last Offering of Course -	Retired Impact No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty Faculty of Engineering	Academic Unit Department of Mechanical and Mechatronics Engineering
Subject Code DM	Number 784
Title Product Development Planning and Execution	
Abbreviated Title Product Planning & Execution	

Description

This course deals with the effective product development project management. The scope is multidisciplinary: we will cover both the analytical (quantitative) and qualitative aspects of how to best run product development projects. It introduces concepts that a development project manager of engineering should know about. It only briefly covers how to manage the whole product design development process. * Linking project selection to technology strategy * How to screen and select projects * How to monitor and review their progress * Resource allocation among projects, timing and links, concurrent engineering * How to staff and lead projects * When to kill a project * Post-project review and learning

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add**

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

DM 790 - Logistics and Supply Chain Management

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<p>Proposed</p> <p>Effective Term and Year Spring 2026</p> <p>Existing</p> <p>Effective Term and Year Fall 2023</p>	11269	1

Proposal Details

Proposal Type
Retire

Academic Unit Approval
2025-11-21

Last Offering of Course
-

Retired Impact
No

Rationale for Change

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Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

790

Title

Logistics and Supply Chain Management

Abbreviated Title

Logistics & Supply Chain Mgmt

Description

Modern supply chain management encompasses the logistics of inventory and transportation flows, whether within a given organization or between that firm and other companies (suppliers, customers) that are part of its business. This course thus deal with models and analyses of the inbound transportation of raw materials, manufactured components and sub-assemblies. Another emphasis is the (outbound) physical distribution of finished goods from factory to consumer: freight transportation (various modes, customer service, multi-location inventory management and distribution-centre site selection. Specialized topics (for term projects) may be chosen from among Logistics Information Systems; Global Supply Chain Management; Vehicle Routing; or the Logistics of e-Commerce.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

DM 791 - Management of Quality

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Effective Date & Career

Career
Graduate

Effective Term and Year

Quest Course ID
12021

Offering Number
1

Proposed
Effective Term and Year Spring 2026
Existing
Effective Term and Year Fall 2023

Proposal Details

Proposal Type
Retire

Academic Unit Approval
2025-11-21

Last Offering of Course
-

Retired Impact
No

Rationale for Change

The Design and Manufacturing (DM) courses were part of a Design and Manufacturing MEng program that has not been offered for at least 15 years. The MEng in Design and Manufacturing last appeared in the Graduate Studies Academic Calendar in Spring 2010, the program has since been removed from the Calendar but the courses remain. As these courses have not been offered since at least 2014, we seek to remove them in order to clean up the Calendar.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Subject Code

DM

Number

791

Title

Management of Quality

Abbreviated Title

Management of Quality

Description

This course provides an introduction to quality management by examining the philosophies, practices, tools, and decisions involved in the management of quality. An applied approach is used in this study. The course begins with a general overview of quality, including the various ways of defining and measuring quality and the Cost-of-quality model. This culminates in an

introduction to total quality (TQM) and its three cornerstones: continuous improvement, customer focus, and total organizational involvement. The remainder of the course examines these cornerstones in greater detail. The objectives of the course are: (1) to develop an appreciation for importance of managing the quality at all levels, and stages of the organization, (2) to introduce techniques for defining, monitoring, and improving quality, and (3) to encourage critical thinking about issues in managing quality, within the organization, and in society in general.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BE 630 - Sales

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Effective Date & Career

Career

Graduate

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New

Rationale for New Course

In the revised program, Sales will be an essential part of the program for some of the new Graduate Specializations. As well, selling includes influencing, and this course includes some additional lessons on that. It is another important topic to MBET students, particularly in the New Venture Creation & Commercialization specialization, and the Product Management and Innovation specialization.

Course Information

Faculty

Academic Unit

Subject Code

BE

Number

630

Title

Sales

Abbreviated Title

Sales

Description

The one thing every business venture needs - whether small or large, for-profit, not-for-profit, startup or established business - is revenue. This course is designed to help students build their skills in professional persuasion and the essential elements of building a scalable, repeatable sales process for organizations. Course work examines the need to understand buyers and their motivations, finding early traction and building the evidence needed to expand sales opportunities. We examine the right way to prospect to build a sales funnel, tools for managing and improving the sales process, and assessing the value of a sale from the perspective of customer impact and achievement of the financial/strategic goals for the organization. Importantly, we also look at how sales bring the customer's voice to the table and how sales functions interact with other parts of the organization.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add**Consent to Drop**

No consent required

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BE 645 - AI Business Applications

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Effective Date & Career

Career

Graduate

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New

Rationale for New Course

Our AI and Digital Transformations graduate specialization focuses on helping businesses implement the benefits of AI technology. It is a disruptive technology and businesses are clamouring both to understand what it means for them, and also to bring more AI into their organizations.

There are a variety of applications that AI has within organizations. What distinguishes it from the many AI courses on campus that already exist is that it isn't meant to allow students to build models from scratch, program AI, or do deep AI-related work. This course equips students to analyze, design, and implement AI-enabled business changes. Students will learn how AI systems work well enough to ask the right questions, make sound decisions, and lead AI initiatives. As such, it would be suitable for students who are not programmers or engineers, but do have technical savvy and a willingness to learn.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BE

Number

645

Title

AI Business Applications

Abbreviated Title

AI Business Applications

Description

This course equips students to analyze, design, and implement AI-enabled business changes. Students will not learn to build models from scratch, but they will learn how AI systems work well enough to ask the right questions, make sound decisions, and lead AI initiatives.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

Effective Date & Career

Career
Graduate

Effective Term and Year
Fall 2026

Proposal Details

Proposal Type
New

Rationale for New Course

The MBET program develops business skills in students who may not have any formal training in business. Conrad is introducing a new specialization in AI & Digital Transformations. As part of this, they need to learn how to introduce change to organizations driven by disruptive digital technologies.

While investments in new technology are important, this is not the only aspect of successful digital transformation. It requires an understanding of the implications for the firm's products and services as well as its business model, culture, and operations. This course provides an overview of the strategic and tactical realities to successfully create digital change. As such, it gives our students a skill that is in short supply but needed for evolving Canada's economic capabilities.

Course Information

Faculty
Faculty of Engineering

Academic Unit
Conrad School of Entrepreneurship and Business

Subject Code
BE

Number
650

Title
Digital Transformations

Abbreviated Title
Digital Transformations

Description
Organizations are increasingly required to transform their operations both internally and customer-facing due to the rapid development of digital technologies such as block-chain, cyber security, or machine learning, as well as organization-wide applications. While investments in new technology are important, a successful digital transformation also requires an understanding of the implications for the firm's products and services, its business model and strategy, organizational design, culture, and operations. In this course, we examine how to carry out digital transformations in a way that maximizes value and minimizes disruption.

Units

Exceptions to Fees or Academic Progress Units

0.50

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

BET 604A - New Technology-based Venture Creation: Part 1

[Top](#)

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Fall 2026	11690	1

Proposal Details

Proposal Type
New

Rationale for New Course

The current MBET program has a 0.50 credit course that spans the entire year (actually 10 months). Now that students will pick streams starting in the Winter term, this capstone course will only span the 8 months from January to August. Also, because all courses will now be offered on a term basis rather than spanning the year, that means students will need to continue working on the project over both terms. It is expected that most students who take BET 604A will also take BET 604B.

There is no syllabus for the course as it is mostly designed as a hands-on practicum. The students work on building their own venture with the faculty member acting as a mentor and guide. While some content is provided, it can vary widely depending on the needs of each student.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

604A

Title

New Technology-based Venture Creation: Part 1

Abbreviated Title

Venture Creation: Part 1

Description

The creation of new ventures is a defining attribute of entrepreneurs. While the specific focus will be on creating new independent ventures, the theory and principles discussed in this course can be applied to creating new ventures within existing corporation and to new social ventures. The MBET program is an experiential program that combines knowing and doing. BET 604A provides the framework for doing. It affords the opportunity to apply what is learned in other BET courses to a new venture of each student's choosing.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Community & Industry Research Projects

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add**Consent to Drop**

No consent required

No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BET 604B - New Technology-based Venture Creation: Part 2

[Top](#)

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Fall 2026	11690	1

Proposal Details

Proposal Type

New

Rationale for New Course

The current MBET program has a 0.50 credit course that spans the entire year (actually 10 months). Now that students will pick streams starting in the Winter term, this capstone course will only span the 8 months from January to August. Also, because all courses will now be offered on a term basis rather than spanning the year, that means students will need to continue working on the project over both terms. It is expected that most students who take BET 604A will also take BET 604B.

There is no syllabus for the course as it is mostly designed as a hands-on practicum. The students work on building their own venture with the faculty member acting as a mentor and guide. While some content is provided, it can vary widely depending on the needs of each student.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

604B

Title

New Technology-based Venture Creation: Part 2

Abbreviated Title

Venture Creation: Part 2

Description

The creation of new ventures is a defining attribute of entrepreneurs. While the specific focus will be on creating new independent ventures, the theory and principles discussed in this course can be applied to creating new ventures within existing corporation and to new social ventures. The MBET program is an experiential program that combines knowing and doing. BET 604B provides the framework for doing. It affords the opportunity to apply what is learned in other BET courses to a new venture of each student's choosing.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Community & Industry Research Projects

Primary Component

Lecture

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
No

Repeatable Courses

Can this course be repeated for credit?
No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**
 - **Must have completed the following:**
 - **BET604A - New Technology-based Venture Creation: Part 1 (0.25)**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

BET 613 - Corporate Finance for the Technology-based Organization

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Fall 2026	11691	1

Proposal Details

Proposal Type

New

Rationale for New Course

In the original MBET program, every student was expected to be studying entrepreneurship. In the revised MBET, students now have the option of pursuing one of three specializations (or none), only one of which is entrepreneurial. The other students need a deeper understanding of finance, similar to topics that would be covered in an MBA, for example, such as WACC, capital budgeting, lease vs. buy decisions, securities valuation and interest rates, risk and return trade-off involved in investment decisions, sources of long-term financing, capital structure decisions and how they affect corporate value and dividend policy.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

613

Title

Corporate Finance for the Technology-based Organization

Abbreviated Title

Description

This course provides an introduction to the fundamentals of corporate and organizational finance, including securities valuation and interest rates, risk and return trade-off involved in investment decisions, capital budgeting and sources of long-term financing, capital structure decisions and how they affect corporate value and dividend policy.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **Must have completed the following:**
 - **BET605 - Essential Accounting for Entrepreneurs (0.50)**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BET 615A - Corporate Innovation and Consulting: Part 1

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Fall 2026	16227	1

Proposal Details

Proposal Type

New

Rationale for New Course

The current MBET program has a 0.50 credit course that spans the entire year (actually 10 months). Now that students will pick streams starting in the Winter term, this capstone course will only span the 8 months from January to August. Also, because all courses will now be offered on a term basis rather than spanning the year, that means students will need to continue working on the project over both terms. We are also removing the consulting aspect of this particular practicum.

There is no syllabus for the course as it is mostly designed as a hands-on practicum with just enough lecture component to help students work through the process and also work well with an external client. The students work on consulting to an organization on product development with the faculty member acting as a mentor and guide. While some content is provided, it can vary widely depending on the needs of each student.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

615A

Title

Corporate Innovation and Consulting: Part 1

Abbreviated Title

Innovation & Consulting:Part 1

Description

This course gives students an opportunity to develop and exercise the skills to help businesses explore strategic opportunities and threats using the same frameworks used in start-up environments. It includes identifying problems, assessing opportunities and developing creative solutions in an existing corporate context. The course will involve a mix of theory and practice in the form of lectures, group work, cases, guest speakers, and an innovation consulting team project with an established firm.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Community & Industry Research Projects

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**

Corequisites

- **Completed or concurrently enrolled in at least 1 of the following:**
 - **BE645 - AI Business Applications (0.50)**
 - **BE650 - Digital Transformations (0.50)**
 - **BET617 - Product Management for Digital and Tech-enabled Organizations (0.50)**

Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
 - **BET615 - Corporate Innovation and Consulting (0.50)**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BET 615B - Corporate Innovation and Consulting: Part 2

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Effective Date & Career

Career

Graduate

Effective Term and Year

Fall 2026

Quest Course ID

16227

Offering Number

1

Proposal Details

Proposal Type

New

Rationale for New Course

The current MBET program has a 0.50 credit course that spans the entire year (actually 10 months). Now that students will pick streams starting in the Winter term, this capstone course will only span the 8 months from January to August. Also, because all courses will now be offered on a term basis rather than spanning the year, that means students will need to continue working on the project over both terms. We are also removing the consulting aspect of this particular practicum.

There is no syllabus for the course as it is mostly designed as a hands-on practicum with just enough lecture component to help students work through the process and also work well with an external client. The students work on consulting to an organization on product development with the faculty member acting as a mentor and guide. While some content is provided, it can vary widely depending on the needs of each student.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

615B

Title

Corporate Innovation and Consulting: Part 2

Abbreviated Title

Innovation & Consulting:Part 2

Description

This course gives students an opportunity to develop and exercise the skills to help businesses explore strategic opportunities and threats using the same frameworks used in start-up environments. It includes identifying problems, assessing opportunities and developing creative solutions in an existing corporate context. The course will involve a mix of theory and practice in the form of lectures, group work, cases, guest speakers, and an innovation consulting team project with an established firm.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Community & Industry Research Projects

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**
 - **Must have completed the following:**
 - **BET615A - Corporate Innovation and Consulting: Part 1 (0.25)**

Corequisites

- **No Rules**

Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
 - **BET615 - Corporate Innovation and Consulting (0.50)**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BET 617 - Product Management for Digital and Tech-enabled Organizations

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Fall 2026	16227	1

Proposal Details

Proposal Type

New

Rationale for New Course

Product management is an in-demand profession because it requires the ultimate in T-shaped employees, those with both deep technical and broad cross-disciplinary skills. This is the capstone course for students doing their Graduate Specialization in Product Management and Innovation.

Product management combines a raft of skills learned in other courses. For example, a good product manager has expertise in:

- Customer validation
- Marketing
- Customer data analysis
- Corporate finance
- Project management
- Leadership and team work

As well, there are a number of specialized skills important to product management that aren't taught anywhere else in the MBET program, including:

- Product and portfolio strategy
- Product finance including pro forma projections, KPIs,
- Business case development and presentation
- Gating processes and documentation
- Go-To-Market (GTM) strategy

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

617

Title

Product Management for Digital and Tech-enabled Organizations

Abbreviated Title

Product Management

Description

Product management (PM) is the cross-functional discipline of defining, building, launching, and improving products through aligning customer needs, business strategy, and the challenges of delivering when you don't have line management responsibility for resources. This course explores both the internal-facing and external-facing skills any PM should have. That includes modern product management practices across the product lifecycle, including discovery, strategy, road-mapping, stakeholder alignment, experimentation, metrics/KPIs, go-to-market (GTM) strategy, and lifecycle management. Due to the collaborative nature of Product Management, there is a strong emphasis on team-based work in the course.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BET 640 - Emerging Technologies

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Effective Date & Career

Career

Graduate

Effective Term and Year

Fall 2026

Quest Course ID

16227

Offering Number

1

Proposal Details

Proposal Type

New

Rationale for New Course

The MBET program develops business skills in students who may not have any formal training in business. However, other than the one course on Managing Technological Innovation, there is nothing else on the technological side. The focus of BET 640 is on helping students understand what new technologies are most likely to disrupt existing paradigms, both inside the organization and in the external environment. The secondary focus of the course is on organizational adoption of such technologies, as distinct from product development or technology management which are separate courses.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

640

Title

Emerging Technologies

Abbreviated Title

Emerging Technologies

Description

This course introduces students to emerging and disruptive technologies that are increasingly shaping organizational strategy, operations, and competitive advantage. The objective is not to develop technical mastery, but sufficient literacy to enable informed managerial decision-making. Students will learn how a variety of emerging technologies work, what problems they are well-suited (and poorly suited) to solve, how they create value, how to assess new technologies, and what organizational, ethical, regulatory, and strategic issues they raise. The technologies to be assessed will differ from year-to-year, depending on emerging trends and the longer-term evolution of existing technologies.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Faculty/AFIW Path(s) for Workflow

Dependencies

There are no dependencies

ME 698 - Directed MEng Research Project

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Spring 2026	1859	1

Proposal Details

Proposal Type	Academic Unit Approval
New	2025-11-21

Rationale for New Course

A directed research project will give MEng students the ability to develop transferable research skills and explore opportunities for future graduate work. This course will help strengthen the connection between MEng students and the research faculty in MME. It will also provide an opportunity to recruit graduate students for further research-based degrees. A similar course is already in the Calendar in Chemical Engineering (CHE698) and Electrical and Computer Engineering (ECE699A).

Course Information

Faculty	Academic Unit
Faculty of Engineering	Department of Mechanical and Mechatronics Engineering
Subject Code	Number
ME	698
Title	
Directed MEng Research Project	

Abbreviated Title

MEng Research Project

Description

This is a research project course, designed exclusively for MEng students in Mechanical and Mechatronics Engineering who have completed at least 2 graduate courses and are in good academic standing. Students will carry out a research project over one academic term, under the direct supervision of a Mechanical and Mechatronics Engineering faculty member. A written project report must be submitted at the end of the term, and the report will be evaluated and graded by the project supervisor. This course is not transferable to Mechanical and Mechatronics Engineering MAsc or Ph D programs.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Project Reading

Primary Component

Reading

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add**

Department consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

MSE 682 - Organizational Strategy and Innovation

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Effective Date & Career

Career

Graduate

Effective Term and Year

Spring 2026

Proposal Details

Proposal Type

New

Academic Unit Approval

2025-11-03

Rationale for New Course

To differentiate between the in-person and online course offerings and to update the core courses of the online program so that the content is better aligned with today's business needs and analytics in Organizational Strategy and Innovation.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Management Science and Engineering

Subject Code

MSE

Number

682

Title

Organizational Strategy and Innovation

Abbreviated Title

Org Strategy & Innovation

Description

This course examines how organizations formulate and execute strategies to drive innovation and sustain competitive advantage. Topics include linking organizational strategy with innovation processes, managing technology and change, building dynamic capabilities, and designing structures that foster creativity and collaboration. The course emphasizes how firms can adapt to technological disruption, coordinate innovation across functions, and align strategic priorities with long-term growth.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Reading

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
 - **MSE602 - Strategic Management of Technological Innovation (0.50)**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

MSE 683 - Analytics and Decision-Making

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Effective Date & Career

Career

Graduate

Effective Term and Year

Spring 2026

Proposal Details

Proposal Type
New

Academic Unit Approval
2025-11-03

Rationale for New Course

To differentiate between the in-person and online course offerings and to update the core courses of the online program so that the content is better aligned with today’s business needs and analytics in Analytics and Decision-Making.

Course Information

Faculty
Faculty of Engineering

Academic Unit
Department of Management Science and Engineering

Subject Code
MSE

Number
683

Title
Analytics and Decision-Making

Abbreviated Title
Analytics and Decision-Making

Description
This course explores how data-driven analysis and modeling support effective decision-making in complex organizational settings. It emphasizes the formulation of analytical models, interpretation of results, and application of quantitative insights to real-world managerial problems. Topics include optimization, simulation, prescriptive analytics, and decision support under uncertainty. Students will develop practical skills in translating data into strategic and operational recommendations.

Units
0.50

Exceptions to Fees or Academic Progress Units
No

Components
Lecture Reading

Primary Component
Lecture

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
No

Repeatable Courses

Can this course be repeated for credit?
No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
 - **MSE603 - Principles of Operations Research (0.50)**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

MSE 689 - Statistical Learning and Data Science

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Effective Date & Career

Career
Graduate

Effective Term and Year
Spring 2026

Proposal Details

Proposal Type
New

Academic Unit Approval
2025-11-03

Rationale for New Course

To differentiate between the in-person and online course offerings and to update the core courses of the online program so that the content is better aligned with today's business needs and analytics in Statistical Learning and Data Science.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Management Science and Engineering

Subject Code

MSE

Number

689

Title

Statistical Learning and Data Science

Abbreviated Title

Stat Learning & Data Science

Description

This course introduces foundational concepts in statistics and data analysis for management and engineering applications. Topics include data visualization, regression, classification, and basic techniques in statistical learning. Students gain practical experience applying these methods to real data using examples from organizational and technological contexts.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Reading

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
 - **MSE609 - Quantitative Data Analysis for Management Sciences (0.50)**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

BE 600 - Leadership

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	14671	1

Proposal Details

Proposal Type
Change

Unit Weight/Number Changes
No

Rationale for Change

The title of the course and the course description has been rewritten to more closely mirror the content that has been provided for the last number of years. Now that MBET students are allowed to take BE courses, it is important to ensure there are no duplications.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BE

Number

600

Title

Proposed

Title

Leadership

Existing

Title

Management and Leadership

Abbreviated Title

Proposed

Abbreviated Title

Leadership

Existing

Abbreviated Title

Management and Leadership

Description

Proposed

Description

This course provides students with the opportunity to develop a range of soft skills and the business acumen necessary to maximize the likelihood of business success. Topics include communication and interpersonal skills, leadership, followership, leader-follower systems, engagement, and negotiation skills.

Existing

Description

This course provides students with the opportunity to develop a range of soft skills and the business acumen necessary to maximize the likelihood of business success. Topics include communication and interpersonal skills, leadership and negotiation skills. A range of applied approaches are used, including integrated cases, simulations and interactions with the local business community.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Proposed
Components
Existing
Components
Seminar

Primary Component

Proposed
Primary Component Lecture
Existing
Primary Component Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. This course is only open to graduate students in the Faculty of Engineering.

Corequisites

- **No Rules**

Antirequisites

1. Not open to students enrolled in Master of Business, Entrepreneurship & Technology (MBET)

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

BE 601 - Introduction to Financial and Managerial Accounting

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	13227	1

Proposal Details

Proposal Type
Change

Unit Weight/Number Changes
No

Rationale for Change

Now that MBET students are allowed to take BE courses, it is important to ensure there are no duplications. BE601 is similar to BET605.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BE

Number

601

Title

Introduction to Financial and Managerial Accounting

Abbreviated Title

Intro to Financial & Mng Acc

Description

Proposed

Description
 The course introduces students to the core elements of financial and managerial accounting. Specifically, the course objectives are to 1) assist managers to become proficient at interpreting numbers in financial statements and assessing their usefulness for business decisions, and 2) assist managers to understand the vital role that internal accounting information, or management accounting, plays in making better planning, organizing, controlling, improvement and compensation decisions.

Existing

Description
 The course introduces students to the core elements of financial and managerial accounting. Specifically, the course objectives are to 1) assist managers to become proficient at interpreting numbers in financial statements and assessing their usefulness for business decisions, and 2) assist managers to understand the vital role that internal accounting information, or management accounting, plays in making better planning, organizing, controlling, improvement and compensation decisions. MEng and GDip students only.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Proposed

Components

Existing

Components

Seminar

Primary Component

Proposed

Primary Component

Lecture

Existing

Primary Component

Seminar

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
No

Repeatable Courses

Can this course be repeated for credit?
No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites

1. This course is only open to graduate students in the Faculty of Engineering.

Corequisites

- **No Rules**

Antirequisites

1. Not open to students enrolled in Master of Business, Entrepreneurship & Technology (MBET)

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

BE 602 - Data Analysis and Management

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	13226	1

Proposal Details

Proposal Type
Change

Unit Weight/Number Changes
No

Rationale for Change

The prerequisites have been removed so that more graduate students can now take the course. Antirequisites are being added to prevent students from enrolling in courses with content overlap.

Course Information

Faculty
Faculty of Engineering

Academic Unit
Conrad School of Entrepreneurship and Business

Subject Code

Number

Title

Data Analysis and Management

Abbreviated Title

Data Analysis & Management

Description**Proposed****Description**

Introduces students to the basic tools in using data to make informed management decisions. Coverage includes introductory probability, decision analysis, basic statistics, regression, simulation and linear optimization. Computer spreadsheet exercises, cases and examples will be drawn from marketing, finance, operations management and other management functions.

Existing**Description**

Introduces students to the basic tools in using data to make informed management decisions. Coverage includes introductory probability, decision analysis, basic statistics, regression, simulation and linear optimization. Computer spreadsheet exercises, cases and examples will be drawn from marketing, finance, operations management and other management functions. MEng and GDip students only.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Reading Seminar

Primary Component**Proposed****Primary Component**

Lecture

Existing**Primary Component**

Seminar

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. No Rules

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in any of the following:
 - **MSE609 - Quantitative Data Analysis for Management Sciences (0.50)****MSE718 - Statistical Methods for Data Analytics (0.50)**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	13225	1

Proposal Details

Proposal Type
Change

Unit Weight/Number Changes
No

Rationale for Change
The prerequisites have been removed so that more graduate students can now take the course.

Course Information

Faculty Faculty of Engineering	Academic Unit Conrad School of Entrepreneurship and Business
Subject Code BE	Number 603
Title Operations and Supply Chain Management	
Abbreviated Title Operations&Supply Chain Mngmt	
Description	

Proposed

Description

Introduces students to supply chain and operations management. Covers systems integration, scheduling, forecasting, inventory management, quality management, lean thinking, supply chain management, supply chain collaboration and people and operations. The course uses case studies, a simulation, class discussions, exercises and lectures covering a broad range of operations environments.

Existing

Description

Introduces students to supply chain and operations management. Covers systems integration, scheduling, forecasting, inventory management, quality management, lean thinking, supply chain management, supply chain collaboration and people and operations. The course uses case studies, a simulation, class discussions, exercises and lectures covering a broad range of operations environments. MEng and GDip students only.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Reading Seminar

Primary Component

Proposed

Primary Component

Lecture

Existing

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- 1. No Rules

Corequisites

- No Rules

Antirequisites

- No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BE 604 - Marketing Management

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and
Year
Fall 2026

Existing

Effective Term and
Year
Fall 2023

Quest Course ID

13224

Offering Number

1

Proposal Details

Proposal Type

Change

Unit Weight/Number Changes

No

Rationale for Change

Now that MBET students are allowed to get credits from BE courses, it is important to disallow them from taking BE courses that are too similar to MBET courses. In this case, BE 604 is similar to BET 602.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BE

Number

604

Title

Marketing Management

Abbreviated Title

Marketing Management

Description

Proposed

Description
This course looks at how organizations develop a market orientation and examines the development of marketing strategy in relation to target markets selected, competitive advantages created and exploited and market positioning. The marketing mix of product, price promotion and distribution and the new product development process are also covered.

Existing

Description
This course looks at how organizations develop a market orientation and examines the development of marketing strategy in relation to target markets selected, competitive advantages created and exploited and market positioning. The marketing mix of product, price promotion and distribution and the new product development process are also covered. MEng and GDip students only.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Proposed

Components

Existing

Components

Seminar

Primary Component

Proposed

Primary Component

Lecture

Existing

Primary Component

Seminar

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add**

No consent required

Consent to Drop

No consent required

Prerequisites

1. This course is only open to graduate students in the Faculty of Engineering.

Corequisites

- **No Rules**

Antirequisites

1. Not open to students enrolled in Master of Business, Entrepreneurship & Technology (MBET)

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BE 605 - Project Management

[Top](#)

Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2023

Quest Course ID

13223

Offering Number

1

Proposal Details

Proposal Type

Change

Unit Weight/Number Changes

No

Rationale for Change

The prerequisites have been removed so that more graduate students can now take the course.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BE

Number

605

Title

Project Management

Abbreviated Title

Project Management

Description

Proposed

Description

This course introduces students to the key areas of Project Management. Specifically, the course objectives are to: 1) assist managers in identifying and scheduling project resources, 2) assist managers to conceptualize, plan, schedule, control and execute projects, 3) assist managers to be conversant in project risk management and 4) enable managers to gain a better understanding of the comprehensive nature of project management, including subjects such as best practices, leadership skills and operations.

Existing

Description

This course introduces students to the key areas of Project Management. Specifically, the course objectives are to: 1) assist managers in identifying and scheduling project resources, 2) assist managers to conceptualize, plan, schedule, control and execute projects, 3) assist managers to be conversant in project risk management and 4) enable managers to gain a better understanding of the comprehensive nature of project management, including subjects such as best practices, leadership skills and operations. MEng and GDip students only.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Reading

Seminar

Primary Component

Proposed

Primary Component

Lecture

Existing

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. No Rules

Corequisites

- **No Rules**

Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
 - **MSE651 - International Project Management (0.50)**

Course Notes

Workflow Information

Workflow Path

Faculty/AFIW Path(s) for Workflow

Dependencies

Antirequisites

- MSE 651 - International Project Management

[View Program](#)

BE 620 - Business Strategy

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	16533	1

Proposal Details

Proposal Type

Change

Unit Weight/Number Changes

No

Rationale for Change

Now that MBET students are allowed to get credits from BE courses, it is important to disallow them from taking BE courses that are too similar to MBET courses. In this case, BE 620 is similar to BET 601.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BE

Number

620

Title

Business Strategy

Abbreviated Title

Business Strategy

Description

This course enhances the student's strategic thinking and analytical skills that can be applied at the organizational level. The perspective taken is that of the general manager, with responsibility for all aspects on an organization. Specific topics include strategic management practices, the nature of competitive advantage, specific strategies for different levels of the organization including functional and business levels, and implementing strategy.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add****Consent to Drop**

No consent required

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not open to students enrolled in Master of Business, Entrepreneurship & Technology (MBET)

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

BE 680 - Consulting

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Effective Date & Career

Career
Graduate

Effective Term and Year

Quest Course ID
16540

Offering Number
1

Proposed
Effective Term and Year Fall 2026
Existing
Effective Term and Year Fall 2023

Proposal Details

Proposal Type

Change

Unit Weight/Number Changes

No

Rationale for Change

The requisites have been revised to ensure there is clarity in who can and cannot take the course. In addition, there is an antirequisite with the undergraduate course that was not listed (and the current antirequisite is outdated).

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BE

Number

680

Title

Consulting

Abbreviated Title

Consulting

Description

Many graduate engineers end up working as consultants. While consulting requires expert discipline-specific technical skills, there are general skills that all professionals require. This includes understanding business needs from a holistic perspective, co-developing innovative ideas, influencing skills, problem identification and analysis, and change management. Course topics include the consulting process, managing difficult clients, consulting frameworks, analytical approaches to solving complex problems, engagement management, building a facilitation toolset, negotiation, and advanced presentation techniques. The course also covers aspects of the business of consulting.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: BET480

Course Notes

Workflow Information

Workflow Path

Faculty/AFIW Path(s) for Workflow

Dependencies

There are no dependencies

BET 603 - Entrepreneurial Finance for the Technology-based Enterprise

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	11689	1

Proposal Details

Proposal Type

Change

Unit Weight/Number Changes

No

Rationale for Change

Because students can “choose their own adventure”, we need to ensure they have the prerequisites for this course.

Course Information

Faculty

Academic Unit

Subject Code

BET

Number

603

Title

Entrepreneurial Finance for the Technology-based Enterprise

Abbreviated Title

Entrepreneurial Finance

Description

This course will provide entrepreneurs and enterprise intrapreneurs with an understanding of financing practices and principles relevant to entrepreneurial opportunities. Classes will feature a combination of theory and "real world" practices drawing from the instructor's experiences.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. Must have completed the following:

- **BET605 - Essential Accounting for Entrepreneurs (0.50)**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

Coursework Option: Course Requirements

- Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)

[View Program](#)

BET 604 - New Technology-based Venture Creation

[Top](#)

Effective Date & Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2023

Quest Course ID
11690

Offering Number
1

Proposal Details

Proposal Type

Change

Unit Weight/Number Changes

No

Rationale for Change

Because students can “choose their own adventure”, we need to ensure they have the pre- and/or co-requisites for this course.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

604

Title

New Technology-based Venture Creation

Abbreviated Title

Venture Creation

Description

Proposed

Description

The creation of new ventures is a defining attribute of entrepreneurs. While the specific focus will be on creating new independent ventures, the theory and principles discussed in this course can be applied to creating new ventures within existing corporation and to new social ventures. The MBET program is an experiential program that combines knowing and doing. BET 604 provides the framework for doing. It affords the opportunity to apply what is learned in other BET courses to a new venture of each student's choosing.

Existing

Description

The creation of new ventures is a defining attribute of entrepreneurs. While the specific focus will be on creating new independent ventures, the theory and principles discussed in this course can be applied to creating new ventures within existing corporation and to new social ventures.

The MBET program is an experiential program that combines knowing and doing. BET 604 provides the framework for doing. It affords the opportunity to apply what is learned in other BET courses to a new venture of each student's choosing.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Primary Component

Lecture

Proposed

Components

Community & Industry Research Projects

Existing

Components

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**

Corequisites

1. Completed or concurrently enrolled in:
 - **BET608 - Business Model Validation (0.50)**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

Coursework Option: Course Requirements

- Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET) [View Program](#)

BET 605 - Foundations of Accounting and Finance

[Top](#)

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Proposed	11691	1
	Effective Term and Year		

Fall 2026
Existing
Effective Term and Year
Fall 2023

Proposal Details

Proposal Type

Change

Unit Weight/Number Changes

No

Rationale for Change

In the revised program, this course will be the foundation of both accounting and finance as all students will be required to take it. However, since much of introductory finance is adjacent to the accounting material that has already been in the course, the change of name and description is mostly reflective of what is currently being taught.

Why is this? Because in the current MBET program, the finance course is actually a very specialized entrepreneurship finance. That includes a lot of topics that are not normally included in an MBA first finance course. So, to backfill the finance knowledge of students, we have always had some degree of finance in this course. The new description is as much an acknowledgement of that as anything.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

605

Title

Proposed
Title Foundations of Accounting and Finance
Existing
Title Essential Accounting for Entrepreneurs

Abbreviated Title

Proposed

Abbreviated Title
Foundations of Acct & Finance

Existing

Abbreviated Title
Accounting for Entrepreneurs

Description

Proposed

Description

The purpose of this course is to introduce students to how accounting and financial information can be used by to manage an enterprise, improve decision making, and implement organizational strategy. The course is split into three parts: Financial Accounting (external use of financial information) Management Accounting (the internal use of financial information); and Finance Practices and Principles.

Existing

Description

The purpose of this course is to introduce students to how accounting information can be used by entrepreneurs and enterprise intrapreneurs to manage an enterprise, improve decision making, and implement organizational strategy as the venture proceeds from start-up to SME to maturity. The course is split into two parts: Financial accounting (external use of financial information) and Management Accounting (the internal use of financial information).

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**

Corequisites

- **No Rules**

Antirequisites

- **No Rules**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

Coursework Option: Course Requirements

- Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET) [View Program](#)

BET 615 - Corporate Innovation and Consulting

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Effective Date & Career

Career
Graduate

Effective Term and Year
Proposed
Effective Term and Year
Fall 2026

Quest Course ID
16227

Offering Number
1

Existing
Effective Term and Year
Fall 2023

Proposal Details

Proposal Type
Change

Unit Weight/Number Changes
No

Rationale for Change

Not every MBET student will be taking this course. Because the revised MBET program allows students choice, it is important that the pre- and/or co-requisites are taken before this course.

As well, we are eliminating the consulting aspect as that is already being taught in BE 660, which MBET students are now allowed to take.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Subject Code

BET

Number

615

Title

Corporate Innovation and Consulting

Abbreviated Title

Innovation and Consulting

Description

Proposed

Description

This course gives students an opportunity to develop and exercise the skills to help businesses explore new products and digital transformations. It includes identifying market opportunities, operational inefficiencies, and developing creative solutions. The course involves consultations with an existing firm, helping them develop solutions that include product development, product strategy, digital transformation, new technology implementation, and more.

Existing

Description

This course gives students an opportunity to develop and exercise the skills to help businesses explore strategic opportunities and threats using the same frameworks used in start-up environments. It includes identifying problems, assessing opportunities and developing creative solutions in an existing corporate context. The course will involve a mix of theory and practice in the form of lectures, group work, cases, guest speakers, and an innovation consulting team project with an established firm.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Proposed

Components

Community & Industry Research Projects

Existing

Components**Primary Component**

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **Enrolled in:**
 - **Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)**

Corequisites

1. Completed or concurrently enrolled in at least 1 of the following:
 - **Course Not FoundCourse Not FoundCourse Not Found**

Antirequisites

1. Not completed nor concurrently enrolled in any of the following:
 - **Course Not FoundCourse Not Found**

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

Coursework Option: Course Requirements

- Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET) [View Program](#)

ECE 609 - Engineering Analysis of Living Cells

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Effective Date & Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2023

Quest Course ID
15924

Offering Number
1

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-21

Unit Weight/Number Changes

No

Rationale for Change

Adding BME 603 Engineering Analysis of Living Cells as an antirequisite. This is a held-with course, students should not be able to complete both courses.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

609

Title

Engineering Analysis of Living Cells

Abbreviated Title

Eng Analysis of Living Cells

Description

This course introduces a quantitative understanding of cell biology at the molecular level. Guided with real experimental data, biological processes and systems are modeled using fundamental physical principles and engineering analytic techniques, including free-energy minimization, statistical mechanics, random walk models, electrostatics, diffusive dynamics, electrochemical equilibrium, complex networks, feedback system analysis, Turing reaction-diffusion equations, and sequence analysis. Various complicated biological phenomena will be shown to be explicable with the same simple underlying principles.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in any of the following:
 - **BME603 - Engineering Analysis of Living Cells (0.50)**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

ECE 613 - Image Processing and Visual Communication

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<p>Proposed</p> <p>Effective Term and Year Spring 2026</p> <p>Existing</p> <p>Effective Term and Year Fall 2023</p>	771	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Unit Weight/Number Changes
No

Rationale for Change

Adding ECE 417 Image Processing as an antirequisite. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

613

Title

Image Processing and Visual Communication

Abbreviated Title

Image Procsng & Visl Commnictn

Description

This course covers the fundamental concepts and methods, as well as state-of-the-art theories and technologies in the field of image processing and visual communications. Topics include fundamental digital image and video processing methods; image analysis and understanding; statistical image modeling and perception; and robustness, scalability and security issues in visual communications.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add****Consent to Drop**

No consent required

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE417, ECE710 (Topic 13: Image Processing & Visual Communication)

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

ECE 614 - Communications Over Fading Dispersive Channels

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Effective Date & Career

Career
Graduate

Effective Term and Year

Quest Course ID

Offering Number

772

1

Proposed

Effective Term and Year

Spring 2026

Existing

Effective Term and Year

Fall 2023

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-21

Unit Weight/Number Changes

No

Rationale for Change

Adding ECE 414 Wireless Communication as an antirequisite. These are graduate/undergraduate held-with course pairs. Since some of our own BSc graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

614

Title

Communications Over Fading Dispersive Channels

Abbreviated Title

Fading Dispersive Channels

Description

Overview of mobile communications, characterization and modeling of wireless fading dispersive channels, optimum receiver structure, transmission performance in fading channels, diversity and performance improvement, co-channel interference, spread spectrum and multiple access, capacity analysis in cellular environments.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE414

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

ECE 621 - Computer Organization

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Spring 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	777	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Unit Weight/Number Changes
No

Rationale for Change

Adding ECE 320 Computer Architecture as an antirequisite. These are graduate/undergraduate held-with course pairs. Since some of our own BSc graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

621

Title

Computer Organization

Abbreviated Title

Computer Organization

Description

Organization of high performance digital computers, high speed arithmetic algorithms, control unit and data flow organization. Pipeline systems. Stack machines, associative processors, parallel processors. Performance evaluation.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Complete all of the following
 - Not completed nor concurrently enrolled in any of the following:
 - CS650 - Computer Architecture (0.50)
 - **Not completed nor concurrently enrolled in: CS450, ECE320, ECE429**
 - ~~Not completed nor concurrently enrolled in: CS450, ECE429~~

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

ECE 627 - Register-transfer-level Digital Systems

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and

Quest Course ID

14410

Offering Number

1

Year Spring 2026
Existing
Effective Term and Year Fall 2024

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-21

Unit Weight/Number Changes

No

Rationale for Change

Adding ECE 327 Digital Hardware Systems as an antirequisite. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

627

Title

Register-transfer-level Digital Systems

Abbreviated Title

Regstr-trnsfr-lvl Digtl Systms

Description

Syntax, semantics, and usage of hardware description languages like VHDL, Verilog, etc. Modeling concurrency and using other simulation techniques. Modeling, design, and implementation at the register-transfer level. Functional verification techniques. Timing analysis. Introduction to power analysis and optimization. Introduction to faults and testing.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE327

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

ECE 635 - Fabrication in the Nanoscale: Principles, Technology, & Applications

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<p>Proposed</p> <p>Effective Term and Year Spring 2026</p> <p>Existing</p> <p>Effective Term and Year Fall 2023</p>	787	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Unit Weight/Number Changes
No

Rationale for Change

Adding NE 353 Nanoprobng and Lothigraphy as an antirequisite. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

635

Title

Fabrication in the Nanoscale: Principles, Technology, & Applications

Abbreviated Title

Fab Nanoscale: Tech & Apps

Description

The research in nanoscale science and technology has seen a very fast growth in the past years. The cornerstone for this exciting growth is the ability to create nanoscale patterns, which is the object of the current course. The course will cover all major nano-lithography technologies capable of generating or duplicating sub-100nm patterns, including lithographies based on photons, charged beams, scanning probes, replication and self-assembly. Within each lithographic technique, the students will learn its working principle, related materials and instrument, process and limit. This course is complementary to ECE 631 (Microelectronic Processing Technology), but takes fabrication and associated theory into nanoscale.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE730 (Topic 24: Fab Nanoscale: Tech & Appls), NE353

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

ECE 657D - Neural Networks and Deep Learning

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Effective Date & Career

Career
Graduate

Effective Term and Year

Quest Course ID
16949

Offering Number
1

Proposed

Effective Term and Year
Spring 2026

Existing

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-21

Unit Weight/Number Changes

No

Rationale for Change

Adding ECE 457D Deep Learning or ECE 493 Topic 36 Special Topics in Electrical and Computer Engineering: Neural Networks and Deep Learning as antirequisites. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

657D

Title

Neural Networks and Deep Learning

Abbreviated Title

Neurl Netwrks & Deep Learning

Description

Recent advances in neural network architectures and training algorithms have catalyzed significant breakthroughs in image classification, machine translation, protein folding, and beyond. This course follows the evolution of neural networks and their training algorithms, from the introduction of the perceptron in the 1950s and 1960s to the advent of Chat GPT in the 2020s. Topics covered include key training approaches such as maximum likelihood, contrastive learning, and diffusion modeling, as well as significant architectures such as convolutional nets, graph nets, and transformers. The course will also discuss how neural nets can learn useful “representations” of data, and explore recent trends in training models on web-scale datasets.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Complete all of the following

- Not completed nor concurrently enrolled in any of the following:
- CS679 - Neural Networks (0.50)
- STAT940 - Deep Learning (0.50)
- **Not completed nor concurrently enrolled in: CS479, ECE457D, ECE493 (Topic 36: Neural Networks and Deep Learning), MSE546, or SYDE577**
- ~~Not completed nor concurrently enrolled in: CS479, MSE546, SYDE577~~

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

ECE 659 - Intelligent Sensors & Wireless Sensor Networks

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Effective Date & Career

Career
Graduate

Effective Term and Year

Quest Course ID
15280

Offering Number
1

Proposed
Effective Term and Year Spring 2026
Existing
Effective Term and Year Fall 2023

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Unit Weight/Number Changes
No

Rationale for Change

Adding ECE 493 (Topic 20: IOT Signal Processing) as an antirequisite. These are graduate/undergraduate held-with course

pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

659

Title

Intelligent Sensors & Wireless Sensor Networks

Abbreviated Title

Inllgnt Snsrs&Wrlss Snsr Ntwrk

Description

This course is concerned with recent developments in intelligent sensors and wireless sensor networks. This course will introduce students to diverse fundamental issues encountered in designing and analyzing intelligent sensors and sensor networks (mobile and stationary), with emphasis on mission critical applications.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE493 (Topic 20: IOT Signal Processing), ECE750 (Topic 21: Intelligent Sensors & Wireless Sensor Networks)

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

ECE 663 - Energy Processing

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Quest Course ID

799

Offering Number

1

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2023

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-21

Unit Weight/Number Changes

No

Rationale for Change

Adding ECE 463 Design and Applications of Power Electronic Converters as an antirequisite. These are graduate/ undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

663

Title

Energy Processing

Abbreviated Title

Energy Processing

Description

This course is intended to embrace power electronic aspects together with the broader issues of the systems of energy processing for emerging technologies. Within this framework, topics include performance, selection and optimization of power semiconductor devices including thyristors, GTOs, triacs, BJTs, MOSFETs, IGBTs and MCTs; classification, circuits and performance of converting circuits including rectifiers, inverters, choppers and cycloconverters; control and protection of conversion circuits; requirements and constraints of energy processing systems such as variable speed drives, high energy battery installations, transportation, solar and wind generators and industrial processes.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE463

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

ECE 676B - Experimental Quantum Engineering

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<p>Proposed</p> <p>Effective Term and Year Spring 2026</p> <p>Existing</p> <p>Effective Term and Year Winter 2025</p>	16836	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Unit Weight/Number Changes
No

Rationale for Change

Adding ECE 405B Fundamentals and Experimental Quantum Information as an antirequisite. These are graduate/undergraduate held-with course pairs. Since some of our own BSc graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

676B

Title

Experimental Quantum Engineering

Abbreviated Title

Experimental Quantum Eng

Description

This course introduces basic experimental tools and techniques on which the main quantum computing platforms are based. The course topics will be covered through lectures and through hands on lab experiments and will include photon generation and detection; Rabi oscillations, coherence, and NMR; atom cooling and ion traps; low temperature physics; and Bell inequalities and two-qubit quantum tomography.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add
No consent required

Consent to Drop
No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE405B

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

ECE 676C - Programming of Quantum Computing Algorithms

[Top](#)

Effective Date & Career

Career
Graduate

Effective Term and Year

Quest Course ID
16837

Offering Number
1

Proposed

Effective Term and Year
Spring 2026

Existing

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-21

Unit Weight/Number Changes

No

Rationale for Change

Adding ECE 405C Programming of Quantum Computing Algorithms and ECE 730 Topic 37 - Special Topics in Solid State Devices: Programming of Quantum Computing Algorithms as antirequisites. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

676C

Title

Programming of Quantum Computing Algorithms

Abbreviated Title

Program of Quant Comp Algor

Description

The course introduces basic elements to create quantum circuits in quantum computers: qubits, single-qubit gates, two-qubit gates, quantum operators, and measurements. The principles and practical aspects of quantum algorithms are covered. Students are expected to gain hands-on programming experience with a quantum programming language (one of three: Qiskit, q#, Pennylane) and to implement representative quantum circuits on quantum simulators or real quantum computers through a cloud service such as IBM Q experience, Microsoft Azure, or Xanadu.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components**Primary Component**

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE405C or ECE730 (Topic 37: Programming of Quantum Computing Algorithms)

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

ECE 676D - Superconducting Quantum Circuits

[Top](#)

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<p>Proposed</p> <p>Effective Term and Year Spring 2026</p> <p>Existing</p> <p>Effective Term and Year Winter 2025</p>	16838	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Unit Weight/Number Changes
No

Rationale for Change

Adding ECE 405D Superconducting Quantum Circuits and ECE 730 Topic 38 - Special Topics in Solid State Devices: Superconducting Quantum Circuits as antirequisites. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

676D

Title

Superconducting Quantum Circuits

Abbreviated Title

Superconducting Quant Circ

Description

This course offers applications of superconductivity in quantum information devices and circuits at microwave frequencies. Introducing the basic physics of superconductivity, superconducting transmission lines and cavity resonators are presented as the elementary passive components in quantum circuits. Josephson junctions as an active element in superconducting electronics is introduced and it is shown how a qubit can be constructed based on various two-level system manipulated in Josephson junctions. Three superconducting qubit archetypes, i.e. charge, flux and phase, are introduced along with some hybrid qubits such as transmon and fluxonium. Single qubit operation and qubit coupling in the form of circuit cavity electrostatics and their associated qubit readout are discussed. Some existing quantum computers such as IBM Q System One and Google Sycamore are briefly introduced.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE405D or ECE730 (Topic 38: Superconducting Quantum Circuits)

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

ECE 751 - Distributed and Network-Centric Computing

[Top](#)

Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed
Effective Term and Year Spring 2026
Existing

Quest Course ID

15784

Offering Number

1

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-21

Unit Weight/Number Changes

No

Rationale for Change

Adding ECE 454 Distributed Computing as an antirequisite. Significant overlap in course content is too great to allow for both to be completed for credit.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

751

Title

Distributed and Network-Centric Computing

Abbreviated Title

Dist & Ntwrk Centric Computing

Description

Principles of distributed computing; architectures and middleware; servers, processes, and virtualization; upper-layer network protocols, inter-process communication and remote procedure calling; concurrency, synchronization and distributed algorithms; dependable distributed systems and fault tolerance.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add**

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE454, ECE750 (Topic 5: Distributed and Network Centric Computing)

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

ECE 752 - Foundations of Multi-agent Systems

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Proposed Effective Term and Year Spring 2026	844	1
	Existing Effective Term and Year Spring 2025		

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Unit Weight/Number Changes
No

Rationale for Change

Adding ECE 407 and ECE 493 Topic 27: Foundations of Multi Agent Systems as antirequisites. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

752

Title

Foundations of Multi-agent Systems

Abbreviated Title

Foundations of Multi-agent System

Description

This course is an introduction to the mathematical and computational foundations of modern multi-agent systems, with a focus on game theory, artificial intelligence, and machine learning. The course provides analytical tools to analyze and model multi-agent systems in which an agent's welfare is a function of not only their own actions, but also those of others. Tentative topics include normal-form games, extensive-form games, repeated games, stochastic games, Bayesian games, computation of solution concepts, and learning in multi-agent systems.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE407, ECE493 (Topic 27: Foundations of Multi Agent Systems), ECE 750 (Topic 36: Foundations of Multiagent System)

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

ECE 774 - Radio and Wireless Systems

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and
Year
Spring 2026

Existing

Quest Course ID

16954

Offering Number

1

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-21

Unit Weight/Number Changes

No

Rationale for Change

Adding ECE 474 Radio and Wireless Systems as an antirequisite. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Electrical and Computer Engineering

Subject Code

ECE

Number

774

Title

Radio and Wireless Systems

Abbreviated Title

Radio and Wireless Systems

Description

This course covers a wide range of radio and wireless systems aspects including communication signals and the underlying modulation and multiple access techniques, tradeoffs among different transceiver (transmitter/receiver) architectures (conventional and modern), antennas and radio waves propagation, and design considerations of RF/microwave building blocks, radio and wireless systems. In particular, it links circuits design specifications and system requirements defined in wireless standards.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components**Primary Component**

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE474, ECE770 (Topic 22: Radio and Wireless Systems)

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

ECE 787 - Social Robotics

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Spring 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Spring 2025</div>	16955	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Unit Weight/Number Changes
No

Rationale for Change

Adding ECE 487 and ECE 493 Topic 26: Social Robotics as antirequisites. These are graduate/undergraduate held-with course pairs. Since some of our own BAsC graduates pursue graduate programs in our Department, we need to make sure students do not retake them for credit in the graduate program.

Course Information

Faculty

Academic Unit

Subject Code

ECE

Number

787

Title

Social Robotics

Abbreviated Title

Social Robotics

Description

The course provides an introduction to the research field of social robotics, with a particular human-centered perspective. Human-robot interaction is a highly interdisciplinary area of research that takes inspiration and adopts methods from a range of disciplines, including social sciences, ethology, primatology, developmental psychology, computer science, engineering and Artificial Intelligence. Robots that can interact socially in an effective and acceptable manner with people have become increasingly important for applications ranging from robot-assisted therapy for people with special needs, robotic assistants for older people and care home residents, robots as tools in education or robotic co-workers for a new generation of industrial robot that emphasize human-machine collaboration and communication. Ideas, theories, approaches and applications will be discussed and critically reflected upon. Students will gain an understanding of the concepts and theories underlying social robotics, as well as research methodologies and techniques to realize socially intelligent robots and design, plan and evaluate human-robot interaction experiments.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

- **No Rules**

Corequisites

- **No Rules**

Antirequisites

1. Not completed nor concurrently enrolled in: ECE487, ECE493 (Topic 26: Social Robotics), ECE750 (Topic 35: Social Robotics)

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

MSE 630 - Human Computer Interaction

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Spring 2026

Existing

Quest Course ID

1936

Offering Number

1

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-12-08

Unit Weight/Number Changes

No

Rationale for Change

Removing MSE 605 as a prerequisite. The prerequisite MSE 605-Organizational Behaviour is not necessary because all required foundational concepts will be incorporated directly into the course. Making the course self-contained ensures wider accessibility for students across programs, including those selecting MSE 630 as a faculty elective within the Health Technologies collaborative program.

Course Information

Faculty

Faculty of Engineering

Academic Unit

Department of Management Science and Engineering

Subject Code

MSE

Number

630

Title

Human Computer Interaction

Abbreviated Title

Human Computer Interaction

Description

This course concentrates on the theoretical and practical issues related to the design of the human-computer interfaces. Aspects of human perception, cognition and various models of task analysis are discussed. Further, the course examines the principles of interface design and the related empirical evidence. Priority may be given to Management Sciences students

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Primary Component

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Instructor consent required

Consent to Drop

No consent required

Prerequisites

1. No Rules
 - ~~MSE605 – Organizational Behaviour (0.50)~~

Corequisites

- **No Rules**

Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
 - **CS649 - Human-Computer Interaction (0.50)**
 - **Not completed nor concurrently enrolled in: MSCI730**
 - **Not completed nor concurrently enrolled in: MSCI730**

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

There are no dependencies

MEng in Mechanical & Mechatronics Engineering - Master of Engineering (MEng) in Mechanical and Mechatronics Engineering

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
No

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Removing the English for Multilingual Speakers (EMLS) technical/professional course from the course requirements. The requirement is confusing to many students. We require students to either be exempt from the language requirement or to pass an English language test (e.g. TOEFL), therefore we will not admit a student that is not ELP exempt. In exceptional cases, we would do a conditional admit with an English language requirement. The proposed change would help clarify/simplify the Calendar.

General Program/Plan Information**Faculty**

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Graduate Field of Study

Mechanical and Mechatronics Engineering

Faculty

Faculty of Engineering

Program/Plan Name

Master of Engineering (MEng) in Mechanical and Mechatronics Engineering

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Coursework

Admit Term(s)

Fall, Winter, Spring

Delivery Mode

On-campus

Length of Program

- Full-time: 4 terms (16 months)
- Part-time: 8 terms (32 months)

Registration Option(s)

Full-time, Part-time

Graduate Specializations

- Building Systems
- Materials and Advanced Manufacturing
- Mechatronic Systems
- Sustainable Energy

Additional Program Information

- The University of Waterloo does not provide funding for MEng in Mechanical and Mechatronics Engineering students, and the candidates are expected to be self-supporting.

Admissions

Admission Requirements: Minimum Requirements

- The Department of Mechanical and Mechatronics Engineering requires either (i) a 75% overall standing in the last two years, or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent or (ii) a 75% overall standing or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent, as the minimum requirement for admission to a Master's program for applicants educated at a Canadian institution. A 75% overall standing or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent is the minimum requirement for admission to a Master's program for applicants educated outside of Canada.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé
- Transcript(s)

Admission Requirements: References

- Number of references: 2
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Coursework Option: Course Requirements

No Rules

Coursework Option: Course Requirements

Proposed

Coursework Option: Course Requirements

- Students must complete ME 600 Engineering Practice, Research Methods, Ethics & Professional Development for MME Graduate Students (0.25 unit weight) and 8 one-term (0.50 unit weight) graduate level courses (or courses acceptable for graduate credit).
- At least 2 out of the 8 (0.50 unit weight) required courses must be ME 600-level courses.
- A maximum of 2 500-level courses may be counted for credit.
- Additional Faculty regulations concerning Master's degree requirements are:
 - The candidate must obtain a pass in all courses credited to their program, with a minimum overall average of 70% (a grade of less than 65% in any course counts as a failure).
 - At least half of the courses used for credit must normally be Faculty of Engineering courses and the other half need to be Mechanical and Mechatronics Engineering courses.
- Students in the MEng in Mechanical and Mechatronics Engineering program may choose to pursue one of the

following Graduate Specializations:

1. Building Systems
 2. Materials and Advanced Manufacturing
 3. Mechatronic Systems
 4. Sustainable Energy
- A Graduate Specialization is a University credential that is recognized on the student's transcript but not on the diploma and is intended to reflect that a student has successfully completed a set of courses that together provide an in-depth study in the area of the Graduate Specialization. A student will only obtain the Graduate Specialization on their transcript if they have completed the requirements associated with the MEng degree and the requirements associated with the Graduate Specialization.
 - All MEng Graduate Specializations in Mechanical and Mechatronics Engineering consist of a set of at least 4 graduate (0.50 weight) level courses and this set is comprised of a mix of compulsory and elective courses. Compulsory courses are those that are prescribed as part of the Graduate Specialization. Elective courses are those that are on a list of courses designated as electives for a given Graduate Specialization. The requirements for the Graduate Specialization are described below.

1. Graduate Specialization in Building Systems

- To receive the Graduate Specialization in Building Systems, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - CIVE 507 Building Science and Technology or CIVE 707 Advanced Building Science
 - ME 567 Fire Safety Engineering
 - ME 654 Advanced Applied Thermal Engineering
 - ME 655 Advanced Building Energy Analysis
 - ME 656 Advanced HVAC Systems, Equipment, and Energy Efficiency
 - Set-B:
 - CIVE 601 Engineering Risk and Reliability
 - ME 562 Experimental Methods in Fluids
 - ME 566 Computational Fluid Dynamics for Engineering Design
 - ME 651 Heat Conduction
 - ME 652 Convective Heat Transfer
 - ME 653 Radiation Heat Transfer
 - ME 662 Advanced Fluid Mechanics
 - ME 663 Computational Fluid Dynamics
 - ME 671 Fundamental Fire Dynamics
 - ME 672 Advanced Fire Dynamics
 - ME 673 Fire Modeling

2. Graduate Specialization in Materials and Advanced Manufacturing

- To receive the Graduate Specialization in Materials and Advanced Manufacturing, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ME 531 Physical Metallurgy Applied to Manufacturing
 - ME 559 Finite Element Methods or ME 621 Advanced Finite Element Method
 - ME 620 Mechanics of Continua
 - ME 631 Mechanical Metallurgy
 - ME 632 Experimental Methods in Materials Engineering
 - ME 739 Manufacturing Processes Topics: Topic 15 Additive Manufacturing Design
 - Set-B:
 - ME 526 Fatigue and Fracture Analysis
 - ME 533 Non-Metallic and Composite Materials
 - ME 535 Welding Metallurgy
 - ME 538 Welding Design, Fabrication and Quality Control
 - ME 596 Special Topics in Mechanical Engineering: Topic 12 Manufacturing of Mechatronics Materials and Components
 - ME 627 Fatigue Analysis and Design
 - ME 628 Fracture Mechanics
 - ME 732 Thermodynamics and Phase Transformations
 - ME 734 Mechanics of Composite Materials
 - ME 735 Special Topics - Welding and Joining: Topic 2 Advanced Materials Joining
 - ME 739 Manufacturing Processes Topics: Topic 15 Additive Manufacturing
 - NANO 600 Introduction to Nanotechnology
 - NANO 603 Nanocomposites
 - NANO 605 Design of MEMS and NEMS
 - NANO 606 Advanced Microelectromechanical Systems: Physics, Design & Fabrication

3. Graduate Specialization in Mechatronic Systems

- To receive the Graduate Specialization in Mechatronic Systems, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ECE 602 Introduction to Optimization
 - ECE 650 Methods and Tools for Software Engineering
 - ME 547 Robotic Manipulators: Kinematics, Dynamics and Control
 - ME 640 Autonomous Mobile Robotics
 - ME 649 Control of Machines and Processes
 - ME 780 Special Topics in Mechatronics: Topic 1 Precision Control Systems
 - ME 780 Special Topics in Mechatronics: Topic 5 Computational Intelligence

- Set-B:
 - ECE 682 Multivariable Control Systems
 - ECE 780 Special Topics in Control: Topic 11 Model Predictive Control
 - ME 540 Fundamentals in Neural and Rehabilitation Engineering
 - ME 780 Special Topics in Mechatronics: Topic 17 Vehicle System Dynamics
 - ME 780 Special Topics in Mechatronics: Topic 14 Electromagnetic Actuators
 - ME 780 Special Topics in Mechatronics: Topic 10 Adaptive Control
 - ME 780 Special Topics in Mechatronics: Topic 37 Human Movement Neuromechanics
 - ME 780 Special Topics in Mechatronics: Topic 38 Design of a Mechatronic System
 - MTE 546 Multi Sensor Data Fusion
 - SYDE 575 Image Processing
 - SYDE 652 Dynamics of Multibody Systems
 - SYDE 655 Optimal and Learning-Based Control

4. Graduate Specialization in Sustainable Energy

- To receive the Graduate Specialization in Sustainable Energy, students must successfully complete 4 elective courses. Choose 4 total between Set-A, Set-B, and Set-C. A minimum of 1 must be taken from Set-A, and at least 3 total must be from Set-A and Set-B. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ME 654 Advanced Applied Thermal Engineering
 - ME 659 Energy and Environment
 - Set-B:
 - ME 655 Advanced Building Energy Analysis
 - ME 751 Fuel Cell Technology
 - ME 753 Solar Energy
 - ME 760 Special Topics in Thermal Engineering: Energy Storage
 - ME 765 Special Topics in Fluid Mechanics: Topic 6 Wind Energy
 - Set-C:
 - ME 562 Experimental Methods in Fluids
 - ME 566 Computational Fluid Dynamics for Engineering Design
 - ME 651 Heat Conduction
 - ME 652 Convective Heat Transfer
 - ME 653 Radiation Heat Transfer
 - ME 662 Advanced Fluid Mechanics
 - ME 663 Computational Fluid Dynamics
 - ME 671 Fundamental Fire Dynamics
 - ME 750 Advanced Engineering Thermodynamics

Existing

Coursework Option: Course Requirements

- Students must complete ME 600 Engineering Practice, Research Methods, Ethics & Professional Development for MME Graduate Students (0.25 unit weight) and 8 one-term (0.50 unit weight) graduate level courses (or courses acceptable for graduate credit).
- At least 2 out of the 8 (0.50 unit weight) required courses must be ME 600-level courses.
- A maximum of 2 500-level courses may be counted for credit.
- An English for Multilingual Speakers (EMLS) technical/professional course is normally required for all students who were not English Language Proficiency (ELP) exempt at the time of admission. This course is normally taken in the first term of the program.
- The EMLS communication course can be waived at the discretion of the Department.
- Additional Faculty regulations concerning Master's degree requirements are:
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- All MEng Graduate Specializations in Mechanical and Mechatronics Engineering consist of a set of at least 4 graduate (0.50 weight) level courses and this set is comprised of a mix of compulsory and elective courses. Compulsory courses are those that are prescribed as part of the Graduate Specialization. Elective courses are those that are on a list of courses designated as electives for a given Graduate Specialization. The requirements for the Graduate Specialization are described below.

1. Graduate Specialization in Building Systems

- To receive the Graduate Specialization in Building Systems, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - CIVE 507 Building Science and Technology or CIVE 707 Advanced Building Science
 - ME 567 Fire Safety Engineering

- ME 654 Advanced Applied Thermal Engineering
- ME 655 Advanced Building Energy Analysis
- ME 656 Advanced HVAC Systems, Equipment, and Energy Efficiency
- Set-B:
 - CIVE 601 Engineering Risk and Reliability
 - ME 562 Experimental Methods in Fluids
 - ME 566 Computational Fluid Dynamics for Engineering Design
 - ME 651 Heat Conduction
 - ME 652 Convective Heat Transfer
 - ME 653 Radiation Heat Transfer
 - ME 662 Advanced Fluid Mechanics
 - ME 663 Computational Fluid Dynamics
 - ME 671 Fundamental Fire Dynamics
 - ME 672 Advanced Fire Dynamics
 - ME 673 Fire Modeling

2. Graduate Specialization in Materials and Advanced Manufacturing

- To receive the Graduate Specialization in Materials and Advanced Manufacturing, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ME 531 Physical Metallurgy Applied to Manufacturing
 - ME 559 Finite Element Methods or ME 621 Advanced Finite Element Method
 - ME 620 Mechanics of Continua
 - ME 631 Mechanical Metallurgy
 - ME 632 Experimental Methods in Materials Engineering
 - ME 739 Manufacturing Processes Topics: Topic 15 Additive Manufacturing Design
 - Set-B:
 - ME 526 Fatigue and Fracture Analysis
 - ME 533 Non-Metallic and Composite Materials
 - ME 535 Welding Metallurgy
 - ME 538 Welding Design, Fabrication and Quality Control
 - ME 596 Special Topics in Mechanical Engineering: Topic 12 Manufacturing of Mechatronics Materials and Components
 - ME 627 Fatigue Analysis and Design
 - ME 628 Fracture Mechanics
 - ME 732 Thermodynamics and Phase Transformations
 - ME 734 Mechanics of Composite Materials
 - ME 735 Special Topics - Welding and Joining: Topic 2 Advanced Materials Joining
 - ME 739 Manufacturing Processes Topics: Topic 15 Additive Manufacturing
 - NANO 600 Introduction to Nanotechnology
 - NANO 603 Nanocomposites
 - NANO 605 Design of MEMS and NEMS
 - NANO 606 Advanced Microelectromechanical Systems: Physics, Design & Fabrication

3. Graduate Specialization in Mechatronic Systems

- To receive the Graduate Specialization in Mechatronic Systems, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ECE 602 Introduction to Optimization
 - ECE 650 Methods and Tools for Software Engineering
 - ME 547 Robotic Manipulators: Kinematics, Dynamics and Control
 - ME 640 Autonomous Mobile Robotics
 - ME 649 Control of Machines and Processes
 - ME 780 Special Topics in Mechatronics: Topic 1 Precision Control Systems
 - ME 780 Special Topics in Mechatronics: Topic 5 Computational Intelligence
 - Set-B:
 - ECE 682 Multivariable Control Systems
 - ECE 780 Special Topics in Control: Topic 11 Model Predictive Control
 - ME 540 Fundamentals in Neural and Rehabilitation Engineering
 - ME 780 Special Topics in Mechatronics: Topic 17 Vehicle System Dynamics
 - ME 780 Special Topics in Mechatronics: Topic 14 Electromagnetic Actuators
 - ME 780 Special Topics in Mechatronics: Topic 10 Adaptive Control
 - ME 780 Special Topics in Mechatronics: Topic 37 Human Movement Neuromechanics
 - ME 780 Special Topics in Mechatronics: Topic 38 Design of a Mechatronic System
 - MTE 546 Multi Sensor Data Fusion
 - SYDE 575 Image Processing
 - SYDE 652 Dynamics of Multibody Systems
 - SYDE 655 Optimal and Learning-Based Control

4. Graduate Specialization in Sustainable Energy

- To receive the Graduate Specialization in Sustainable Energy, students must successfully complete 4 elective courses. Choose 4 total between Set-A, Set-B, and Set-C. A minimum of 1 must be taken from Set-A, and at least 3 total must be from Set-A and Set-B. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ME 654 Advanced Applied Thermal Engineering
 - ME 659 Energy and Environment
 - Set-B:

- ME 655 Advanced Building Energy Analysis
- ME 751 Fuel Cell Technology
- ME 753 Solar Energy
- ME 760 Special Topics in Thermal Engineering: Energy Storage
- ME 765 Special Topics in Fluid Mechanics: Topic 6 Wind Energy
- Set-C:
 - ME 562 Experimental Methods in Fluids
 - ME 566 Computational Fluid Dynamics for Engineering Design
 - ME 651 Heat Conduction
 - ME 652 Convective Heat Transfer
 - ME 653 Radiation Heat Transfer
 - ME 662 Advanced Fluid Mechanics
 - ME 663 Computational Fluid Dynamics
 - ME 671 Fundamental Fire Dynamics
 - ME 750 Advanced Engineering Thermodynamics

Coursework Option: Milestone Requirements

Seminar Attendance

- Students must attend at least 4 Mechanical and Mechatronics Engineering research seminars.

Notes

- [Department of Mechanical and Mechatronics Engineering website](#)
- [Master of Engineering \(MEng\) in Mechanical and Mechatronics Engineering future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

Prerequisites

- BE 603 - Operations and Supply Chain Management
- BE 602 - Data Analysis and Management
- BE 606 - Entrepreneurship and Innovation
- BE 601 - Introduction to Financial and Managerial Accounting
- BE 604 - Marketing Management
- BE 600 - Management and Leadership
- BE 610 - Special Topics in Business and Entrepreneurship
- BE 605 - Project Management

- [View Program](#)
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MEng in Mechanical & Mechatronics Engineering-Co-op - Master of Engineering (MEng) in Mechanical and Mechatronics Engineering - Co-operative Program (direct entry)

[Top](#)

Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
No

Is the credential name changing?
No

Graduate Co-operative Requirements

No

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Removing the English for Multilingual Speakers (EMLS) technical/professional course from the course requirements. The requirement is confusing to many students. We require students to either be exempt from the language requirement or to pass an English language test (e.g. TOEFL), therefore we will not admit a student that is not ELP exempt. In exceptional cases, we would do a conditional admit with an English language requirement. The proposed change would help clarify/simplify the Calendar.

General Program/Plan Information**Faculty**

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Graduate Field of Study

Mechanical and Mechatronics Engineering

Faculty

Faculty of Engineering

Program/Plan Name

Master of Engineering (MEng) in Mechanical and Mechatronics Engineering - Co-operative Program (direct entry)

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Coursework

Program Types

Co-operative

Admit Term(s)

Fall, Winter, Spring

Delivery Mode

On-campus

Length of Program

- 5-6 terms (20-24 months)

Registration Option(s)

Full-time

Graduate Specializations

- Building Systems
- Materials and Advanced Manufacturing
- Mechatronic Systems
- Sustainable Energy

Additional Program Information

- The University of Waterloo does not provide funding for MEng in Mechanical and Mechatronics Engineering students, and the candidates are expected to be self-supporting.

Admissions

Admission Requirements: Minimum Requirements

- The Department of Mechanical and Mechatronics Engineering requires either (i) a 75% overall standing in the last two years, or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent or (ii) a 75% overall standing or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent, as the minimum requirement for admission to a Master's program for applicants educated at a Canadian institution. A 75% overall standing or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent is the minimum requirement for admission to a Master's program for applicants educated outside of Canada.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé
- Transcript(s)

Admission Requirements: References

- Number of references: 2
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).
- The MEng in Mechanical and Mechatronics Engineering - Co-operative Program will enable students to combine graduate studies with work experience. The program includes completion of 1-2 required work terms. The work term(s) typically takes place in term 3 (or terms 3 and 4). The work term(s) must meet CEE standard work term requirements and Departmental requirements. Students should apply to jobs related to their program of study. Note: the program must start and end on an academic term.
- Students are required to complete WIL 601 Career Foundations for Work-Integrated Learning in their first academic term of their co-op program. Students must complete WIL 601 in addition to the program's course requirements.

Coursework Option: Course Requirements

No Rules

Coursework Option: Course Requirements

Proposed

Coursework Option: Course Requirements

- Students must complete ME 600 Engineering Practice, Research Methods, Ethics & Professional Development for MME Graduate Students (0.25 unit weight) and 8 one-term (0.50 unit weight) graduate level courses (or courses acceptable for graduate credit).
- At least 2 out of the 8 (0.50 unit weight) required courses must be ME 600-level courses.
- A maximum of 2 500-level courses may be counted for credit.
- Additional Faculty regulations concerning Master's degree requirements are:
 - The candidate must obtain a pass in all courses credited to their program, with a minimum overall average of 70% (a grade of less than 65% in any course counts as a failure).
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- All MEng Graduate Specializations in Mechanical and Mechatronics Engineering consist of a set of at least 4 graduate (0.50 weight) level courses and this set is comprised of a mix of compulsory and elective courses. Compulsory courses are those that are prescribed as part of the Graduate Specialization. Elective courses are those that are on a list of courses designated as electives for a given Graduate Specialization. The requirements for the Graduate Specialization are described below.

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 - CIVE 507 Building Science and Technology or CIVE 707 Advanced Building Science
 - ME 567 Fire Safety Engineering
 - ME 654 Advanced Applied Thermal Engineering
 - ME 655 Advanced Building Energy Analysis
 - ME 656 Advanced HVAC Systems, Equipment, and Energy Efficiency
 - Set-B:
 - CIVE 601 Engineering Risk and Reliability
 - ME 562 Experimental Methods in Fluids
 - ME 566 Computational Fluid Dynamics for Engineering Design
 - ME 651 Heat Conduction
 - ME 652 Convective Heat Transfer
 - ME 653 Radiation Heat Transfer
 - ME 662 Advanced Fluid Mechanics
 - ME 663 Computational Fluid Dynamics
 - ME 671 Fundamental Fire Dynamics
 - ME 672 Advanced Fire Dynamics
 - ME 673 Fire Modeling

2. Graduate Specialization in Materials and Advanced Manufacturing

- To receive the Graduate Specialization in Materials and Advanced Manufacturing, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ME 531 Physical Metallurgy Applied to Manufacturing
 - ME 559 Finite Element Methods or ME 621 Advanced Finite Element Method
 - ME 620 Mechanics of Continua
 - ME 631 Mechanical Metallurgy
 - ME 632 Experimental Methods in Materials Engineering
 - ME 739 Manufacturing Processes Topics: Topic 15 Additive Manufacturing Design
 - Set-B:
 - ME 526 Fatigue and Fracture Analysis
 - ME 533 Non-Metallic and Composite Materials
 - ME 535 Welding Metallurgy
 - ME 538 Welding Design, Fabrication and Quality Control
 - ME 596 Special Topics in Mechanical Engineering: Topic 12 Manufacturing of Mechatronics Materials and Components
 - ME 627 Fatigue Analysis and Design
 - ME 628 Fracture Mechanics
 - ME 732 Thermodynamics and Phase Transformations
 - ME 734 Mechanics of Composite Materials
 - ME 735 Special Topics - Welding and Joining: Topic 2 Advanced Materials Joining
 - ME 739 Manufacturing Processes Topics: Topic 15 Additive Manufacturing
 - NANO 600 Introduction to Nanotechnology
 - NANO 603 Nanocomposites
 - NANO 605 Design of MEMS and NEMS
 - NANO 606 Advanced Microelectromechanical Systems: Physics, Design & Fabrication

3. Graduate Specialization in Mechatronic Systems

- To receive the Graduate Specialization in Mechatronic Systems, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ECE 602 Introduction to Optimization
 - ECE 650 Methods and Tools for Software Engineering
 - ME 547 Robotic Manipulators: Kinematics, Dynamics and Control
 - ME 640 Autonomous Mobile Robotics
 - ME 649 Control of Machines and Processes
 - ME 780 Special Topics in Mechatronics: Topic 1 Precision Control Systems
 - ME 780 Special Topics in Mechatronics: Topic 5 Computational Intelligence
 - Set-B:
 - ECE 682 Multivariable Control Systems
 - ECE 780 Special Topics in Control: Topic 11 Model Predictive Control
 - ME 540 Fundamentals in Neural and Rehabilitation Engineering
 - ME 780 Special Topics in Mechatronics: Topic 17 Vehicle System Dynamics
 - ME 780 Special Topics in Mechatronics: Topic 14 Electromagnetic Actuators

- ME 780 Special Topics in Mechatronics: Topic 10 Adaptive Control
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- ME 780 Special Topics in Mechatronics: Topic 38 Design of a Mechatronic System
- MTE 546 Multi Sensor Data Fusion
- SYDE 575 Image Processing
- SYDE 652 Dynamics of Multibody Systems
- SYDE 655 Optimal and Learning-Based Control

4. Graduate Specialization in Sustainable Energy

- To receive the Graduate Specialization in Sustainable Energy, students must successfully complete 4 elective courses. Choose 4 total between Set-A, Set-B, and Set-C. A minimum of 1 must be taken from Set-A, and at least 3 total must be from Set-A and Set-B. No more than 1 of the 4 courses may be 500-level.
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 - ME 654 Advanced Applied Thermal Engineering
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 - ME 562 Experimental Methods in Fluids
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Existing

Coursework Option: Course Requirements

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 - ME 655 Advanced Building Energy Analysis
 - ME 656 Advanced HVAC Systems, Equipment, and Energy Efficiency
 - Set-B:
 - CIVE 601 Engineering Risk and Reliability
 - ME 562 Experimental Methods in Fluids

- ME 566 Computational Fluid Dynamics for Engineering Design
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- ME 652 Convective Heat Transfer
- ME 653 Radiation Heat Transfer
- ME 662 Advanced Fluid Mechanics
- ME 663 Computational Fluid Dynamics
- ME 671 Fundamental Fire Dynamics
- ME 672 Advanced Fire Dynamics
- ME 673 Fire Modeling

2. Graduate Specialization in Materials and Advanced Manufacturing

- To receive the Graduate Specialization in Materials and Advanced Manufacturing, students must successfully complete 4 elective courses. Choose 4 total between Set-A and Set-B. A minimum of 2 must be taken from Set-A. No more than 1 of the 4 courses may be 500-level.
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 - ME 531 Physical Metallurgy Applied to Manufacturing
 - ME 559 Finite Element Methods or ME 621 Advanced Finite Element Method
 - ME 620 Mechanics of Continua
 - ME 631 Mechanical Metallurgy
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 - ME 739 Manufacturing Processes Topics: Topic 15 Additive Manufacturing Design
 - Set-B:
 - ME 526 Fatigue and Fracture Analysis
 - ME 533 Non-Metallic and Composite Materials
 - ME 535 Welding Metallurgy
 - ME 538 Welding Design, Fabrication and Quality Control
 - ME 596 Special Topics in Mechanical Engineering: Topic 12 Manufacturing of Mechatronics Materials and Components
 - ME 627 Fatigue Analysis and Design
 - ME 628 Fracture Mechanics
 - ME 732 Thermodynamics and Phase Transformations
 - ME 734 Mechanics of Composite Materials
 - ME 735 Special Topics - Welding and Joining: Topic 2 Advanced Materials Joining
 - ME 739 Manufacturing Processes Topics: Topic 15 Additive Manufacturing
 - NANO 600 Introduction to Nanotechnology
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 - NANO 605 Design of MEMS and NEMS
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 - ECE 602 Introduction to Optimization
 - ECE 650 Methods and Tools for Software Engineering
 - ME 547 Robotic Manipulators: Kinematics, Dynamics and Control
 - ME 640 Autonomous Mobile Robotics
 - ME 649 Control of Machines and Processes
 - ME 780 Special Topics in Mechatronics: Topic 1 Precision Control Systems
 - ME 780 Special Topics in Mechatronics: Topic 5 Computational Intelligence
 - Set-B:
 - ECE 682 Multivariable Control Systems
 - ECE 780 Special Topics in Control: Topic 11 Model Predictive Control
 - ME 540 Fundamentals in Neural and Rehabilitation Engineering
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 - SYDE 652 Dynamics of Multibody Systems
 - SYDE 655 Optimal and Learning-Based Control

4. Graduate Specialization in Sustainable Energy

- To receive the Graduate Specialization in Sustainable Energy, students must successfully complete 4 elective courses. Choose 4 total between Set-A, Set-B, and Set-C. A minimum of 1 must be taken from Set-A, and at least 3 total must be from Set-A and Set-B. No more than 1 of the 4 courses may be 500-level.
 - Set-A:
 - ME 654 Advanced Applied Thermal Engineering
 - ME 659 Energy and Environment
 - Set-B:
 - ME 655 Advanced Building Energy Analysis
 - ME 751 Fuel Cell Technology
 - ME 753 Solar Energy
 - ME 760 Special Topics in Thermal Engineering: Energy Storage
 - ME 765 Special Topics in Fluid Mechanics: Topic 6 Wind Energy
 - Set-C:

- ME 562 Experimental Methods in Fluids
- ME 566 Computational Fluid Dynamics for Engineering Design
- ME 651 Heat Conduction
- ME 652 Convective Heat Transfer
- ME 653 Radiation Heat Transfer
- ME 662 Advanced Fluid Mechanics
- ME 663 Computational Fluid Dynamics
- ME 671 Fundamental Fire Dynamics
- ME 750 Advanced Engineering Thermodynamics

Coursework Option: Milestone Requirements

Seminar Attendance

- Students must attend at least 4 Mechanical and Mechatronics Engineering research seminars.

Graduate Studies Work Report

- Students must complete one or two work-term experiences. For each work experience, a work report must be submitted to the Department for review to earn credit for the work report.
- Students are responsible for following the [roles and responsibilities of Co-operative and Experiential Education \(CEE\)](#).

Notes

- [Department of Mechanical and Mechatronics Engineering website](#)
- [Master of Engineering \(MEng\) in Mechanical and Mechatronics Engineering - Co-operative Program future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

Prerequisites

- BE 603 - Operations and Supply Chain Management
- BE 602 - Data Analysis and Management
- BE 606 - Entrepreneurship and Innovation
- BE 601 - Introduction to Financial and Managerial Accounting
- BE 604 - Marketing Management
- BE 600 - Management and Leadership
- BE 610 - Special Topics in Business and Entrepreneurship
- BE 605 - Project Management

- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
- [View Program](#)
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MEng in Mechanical & Mechatronics Engineering-Health Technologies-Co-op - Master of Engineering (MEng) in Mechanical and Mechatronics Engineering - Health Technologies - Co-operative Program (direct entry)

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Winter 2026

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-21

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
No

Is the credential name changing?
No

Graduate Co-operative Requirements

No

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Removing the English for Multilingual Speakers (EMLS) technical/professional course from the course requirements. The requirement is confusing to many students. We require students to either be exempt from the language requirement or to pass an English language test (e.g. TOEFL), therefore we will not admit a student that is not ELP exempt. In exceptional cases, we would do a conditional admit with an English language requirement. The proposed change would help clarify/simplify the Calendar.

General Program/Plan Information**Faculty**

Faculty of Engineering

Academic Unit

Department of Mechanical and Mechatronics Engineering

Graduate Field of Study

Mechanical and Mechatronics Engineering

Faculty

Faculty of Engineering

Program/Plan Name

Master of Engineering (MEng) in Mechanical and Mechatronics Engineering - Health Technologies - Co-operative Program (direct entry)

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Coursework

Program Types

Co-operative Collaborative

Admit Term(s)

Fall, Winter, Spring

Delivery Mode

On-campus

Length of Program

- 5-6 terms (20-24 months)

Registration Option(s)

Full-time

Additional Program Information

- The University of Waterloo does not provide funding for MEng in Mechanical and Mechatronics Engineering students, and the candidates are expected to be self-supporting.

Admissions

Admission Requirements: Minimum Requirements

- The Department of Mechanical and Mechatronics Engineering requires either (i) a 75% overall standing in the last two years, or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent or (ii) a 75% overall standing or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent, as the minimum requirement for admission to a Master's program for applicants educated at a Canadian institution. A 75% overall standing or equivalent, in a relevant four-year Honours Bachelor's degree or equivalent is the minimum requirement for admission to a Master's program for applicants educated outside of Canada.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé
- Transcript(s)

Admission Requirements: References

- Number of references: 2
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).
- The MEng in Mechanical and Mechatronics Engineering - Health Technologies - Co-operative Program will enable students to combine graduate studies with work experience. The program includes completion of 1-2 required work terms. The work term(s) typically takes place in term 3 (or terms 3 and 4). The work term(s) must meet CEE standard work term requirements and Departmental requirements. Students should apply to jobs related to their program of study. Note: the program must start and end on an academic term.
- Students are required to complete WIL 601 Career Foundations for Work-Integrated Learning in their first academic term of their co-op program. Students must complete WIL 601 in addition to the program's course requirements.

Coursework Option: Course Requirements

No Rules

Coursework Option: Course Requirements

Proposed

Coursework Option: Course Requirements

- Students must complete ME 600 Engineering Practice, Research Methods, Ethics & Professional Development for MME Graduate Students (0.25 unit weight) and 9 one-term (0.50 unit weight) graduate level courses (or courses acceptable for graduate credit) as follows:
 - 2 of the following Health Technologies core courses:
 - ECON 643 Health Economics
 - MSE 619 Healthcare Analytics
 - PHIL 626 Bioethics and Technology
 - 2 of the following Faculty of Engineering Health Technologies elective courses:
 - BME 602 Foundations in Biomechanical Engineering
 - CHE 621 Model Building and Response Surface Methodology
 - ECE 608 Quantitative Methods in Biomedical Engineering
 - ENVE 585 Air Quality Engineering and Impacts
 - MSE 630 Human-Computer Interaction
 - SYDE 610 Design of Biomedical Technologies
 - 1 of the following Health Technologies elective courses:
 - HLTH 605B Quantitative Methods and Analysis
 - HLTH 606B Principles of Epidemiology for Public Health
 - HLTH 612 Data Structures and Standards in Health Informatics
 - HLTH 615 Requirements Specifications and Analysis in Health Systems

- HLTH 633 Digital Health
- HLTH 657M Application of Artificial Intelligence in Health (0.25) and 658M Machine Learning Techniques in Health (0.25)
- 4 Engineering graduate level courses
- At least 3 out of the 9 (0.50 unit weight) required courses must be ME courses of which at least 2 must be 600-level courses (not counting ME 600). Note: BME 602 may count towards 600-level ME courses.
- A maximum of 2 500-level courses may be counted for credit.
- Additional Faculty regulations concerning Master's degree requirements are:
 - The candidate must obtain a pass in all courses credited to their program, with a minimum overall average of 70% (a grade of less than 65% in any course counts as a failure).
 - At least half of the courses used for credit must normally be Faculty of Engineering courses and the other half need to be Mechanical and Mechatronics Engineering courses.

Existing

Coursework Option: Course Requirements

- Students must complete ME 600 Engineering Practice, Research Methods, Ethics & Professional Development for MME Graduate Students (0.25 unit weight) and 9 one-term (0.50 unit weight) graduate level courses (or courses acceptable for graduate credit) as follows:
 - 2 of the following Health Technologies core courses:
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 - PHIL 626 Bioethics and Technology
 - 2 of the following Faculty of Engineering Health Technologies elective courses:
 - BME 602 Foundations in Biomechanical Engineering
 - CHE 621 Model Building and Response Surface Methodology
 - ECE 608 Quantitative Methods in Biomedical Engineering
 - ENVE 585 Air Quality Engineering and Impacts
 - MSE 630 Human-Computer Interaction
 - SYDE 610 Design of Biomedical Technologies
 - 1 of the following Health Technologies elective courses:
 - HLTH 605B Quantitative Methods and Analysis
 - HLTH 606B Principles of Epidemiology for Public Health
 - HLTH 612 Data Structures and Standards in Health Informatics
 - HLTH 615 Requirements Specifications and Analysis in Health Systems
 - HLTH 633 Digital Health
 - HLTH 657M Application of Artificial Intelligence in Health (0.25) and 658M Machine Learning Techniques in Health (0.25)
 - 4 Engineering graduate level courses
- At least 3 out of the 9 (0.50 unit weight) required courses must be ME courses of which at least 2 must be 600-level courses (not counting ME 600). Note: BME 602 may count towards 600-level ME courses.
- A maximum of 2 500-level courses may be counted for credit.
- An English for Multilingual Speakers (EMLS) technical/professional course is normally required for all students who were not English Language Proficiency (ELP) exempt at the time of admission. This course is normally taken in the first term of the program.
- The EMLS communication course can be waived at the discretion of the Department.
- Additional Faculty regulations concerning Master's degree requirements are:
 - The candidate must obtain a pass in all courses credited to their program, with a minimum overall average of 70% (a grade of less than 65% in any course counts as a failure).
 - At least half of the courses used for credit must normally be Faculty of Engineering courses and the other half need to be Mechanical and Mechatronics Engineering courses.

Coursework Option: Milestone Requirements

Seminar Attendance

- Students must attend at least 4 Mechanical and Mechatronics Engineering research seminars.

Graduate Studies Work Report

- Students must complete one or two work-term experiences. For each work experience, a work report must be submitted to the Department for review to earn credit for the work report.
- Students are responsible for following the [roles and responsibilities of Co-operative and Experiential Education \(CEE\)](#).

Notes

- [Department of Mechanical and Mechatronics Engineering website](#)
- [Master of Engineering \(MEng\) in Mechanical and Mechatronics Engineering - Health Technologies - Co-operative Program future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

There are no dependencies

Date 2026/04/08

Show Empty Fields

Meeting Information

Agenda Page Title

SGC - Consent Agenda - Faculty of Environment - April 16, 2026

Career Level
Graduate,

Faculty/Unit
Environment

Date

2026-04-16

Summary

Course Proposals:

1) Faculty of Environment:

ENVS:

1 new course

2) School of Environment, Enterprise and Development:

DEVP:

2 course revisions

ENBUS:

3 course revisions

SUSM:

3 course revisions

Program Proposals:

1) School of Environment, Enterprise and Development:

1.1) PhD in Sustainability Management

1.2) PhD in Sustainability Management - Aeronautics

1.3) PhD in Sustainability Management - Water

a) Changing the "Qualifying Examination" milestone to a "Comprehensive Examination" milestone.

Attachment(s)

Course Proposals

Courses: Retire

No proposals have been added.

Courses: New

Code	Title	Type	Workflow Step
ENVS 674	Graduate Topics in Environment	Courses	SGC, Senate Graduate Council (SGC)

Courses: Changes

Code	Title	Type	Workflow Step
DEVP 601	Foundations of Sustainable Development Practice	Courses	SGC, Senate Graduate Council (SGC)
DEVP 617	Field Course	Courses	SGC, Senate Graduate Council (SGC)
ENBUS 601	Business and the Case for Sustainability	Courses	SGC, Senate Graduate Council (SGC)
ENBUS 632	Sustainability Reporting	Courses	SGC, Senate Graduate Council (SGC)
ENBUS 642	Stakeholder Engagement, Collaborations and Partnerships	Courses	SGC, Senate Graduate Council (SGC)
SUSM 620	Sustainable Operations	Courses	SGC, Senate Graduate Council (SGC)
SUSM 630	Marketing for Sustainability	Courses	SGC, Senate Graduate Council (SGC)
SUSM 680	Industrial Ecology: Principles and Approaches	Courses	SGC, Senate Graduate Council (SGC)

Programs & Plans Proposals**Programs & Plans: Retire**

No proposals have been added.

Programs & Plans: Major Modifications

No proposals have been added.

Programs & Plans: Minor Modifications

Code	Title	Type	Workflow Step
PhD in Sustainability Management	Doctor of Philosophy (PhD) in Sustainability Management	Programs	SGC, Senate Graduate Council (SGC)
PhD in Sustainability Management-Aeronautics	Doctor of Philosophy (PhD) in Sustainability Management - Aeronautics	Programs	SGC, Senate Graduate Council (SGC)
PhD in Sustainability Management-Water	Doctor of Philosophy (PhD) in Sustainability Management - Water	Programs	SGC, Senate Graduate Council (SGC)

Regulations Proposals**Regulations: Retire**

No proposals have been added.

Regulations: New

No proposals have been added.

Regulations: Changes

No proposals have been added.

ENVS 674 - Graduate Topics in Environment

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Effective Date & Career

Career

Graduate

Effective Term and Year

Spring 2026

Proposal Details

Proposal Type

New

Rationale for New Course

'Topics' courses exist within the Faculty of Environment at the undergraduate level (e.g., ENVS 274 and ENVS 474) and at the graduate level (e.g., ERS 674 and SUSM 674), allowing for departments to be responsive to new student interests, to allow instructors to pilot new areas of teaching and/or to use new teaching techniques, and to take advantage of the good will of short duration visiting scholars. The creation of ENVS 674 parallels these other courses and is intended for similar purposes. Additionally, ENVS 674 will be used for cross-department collaborations, welcoming students from across the Faculty of Environment (and potentially beyond) and thus advancing some of the goals in Environment 2035, the Faculty's Strategic Plan.

Course Information

Faculty

Faculty of Environment

Academic Unit

Dean of Environment Office

Subject Code

ENVS

Number

674

Title

Graduate Topics in Environment

Abbreviated Title

Graduate Topics in Environment

Description

This topics course will be offered from time to time to students in multiple programs in the Faculty of Environment in order to

cover areas of emerging teaching and/or research interest, particularly those that lend themselves to an interdisciplinary investigation.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Seminar Project

Community & Industry Research Projects

Primary Component

Lecture

Grading Information

Grading Basis

Credit/No Credit

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

Yes

Total Completions Allowed

03

Allow Multiple Enrol in a Term

Yes

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Environment

Dependencies

There are no dependencies

DEVP 601 - Foundations of Sustainable Development Practice

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<p>Proposed</p> <p>Effective Term and Year Fall 2026</p> <p>Existing</p> <p>Effective Term and Year Spring 2025</p>	14308	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2026-03-06

Unit Weight/Number Changes
No

Rationale for Change

Enrollment will be managed with course reserves during scheduling going forward to all SEED graduate students to register without permission numbers for the courses they are eligible to take as part of their degree program.

Course Information

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Subject Code

DEVP

Number

601

Title

Foundations of Sustainable Development Practice

Abbreviated Title

Foundations of Sustain Dev

Description

This is an e-course delivered through the Earth Institute, Columbia University, New York, for all members of the Master of Development Practice international network. It is a multidisciplinary, survey course in which students explore the connection between energy, health and poverty and the implications for sustainable development, the role of science, technology and policy, and the 'energy ladder.' Students will learn about the barriers to sustainable development and discuss cost-effective, culturally appropriate solutions.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Seminar

Primary Component

Seminar

Grading Information

Grading Basis

Credit/No Credit

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Proposed

Consent to Add
No consent required

Existing

Consent to Add
Department consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

There are no dependencies

DEVP 617 - Field Course

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Quest Course ID

15697

Offering Number

1

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Spring 2025

Proposal Details

Proposal Type

Change

Academic Unit Approval

2026-03-06

Unit Weight/Number Changes

No

Rationale for Change

Enrollment will be managed with course reserves during scheduling going forward to all SEED graduate students to register without permission numbers for the courses they are eligible to take as part of their degree program.

Course Information

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Subject Code

DEVP

Number

617

Title

Field Course

Abbreviated Title

Field Course

Description

This course is a field trip that provides students with firsthand experience in Development Practice, Environmental Change and Governance. The course uses an immersive and experiential approach to learning and explores a variety of sustainable development themes within a specific country context. The course is delivered as an intensive block no less than seven (7) days in the country field location, which normally takes place over the Winter Term Reading Week. Field trip fees may apply.

Units
0.50

Exceptions to Fees or Academic Progress Units
No

Components

Field Studies Lecture Reading Seminar

Primary Component

Lecture

Grading Information

Grading Basis
Credit/No Credit

Cross-Listing Information

Is this course cross-listed?
No

Repeatable Courses

Can this course be repeated for credit?
No

Enrolment Rules

Consent to Add

Proposed

Consent to Add
No consent required

Existing

Consent to Add
Instructor consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Environment

Dependencies

There are no dependencies

ENBUS 601 - Business and the Case for Sustainability

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	13545	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2026-03-06

Unit Weight/Number Changes
No

Rationale for Change

This is an in person block course taught in August for our MEB program which is an asynchronous online program. The course is intended to introduce our students to the program content, meet the instructors who will be teaching them online and help with cohort building. Given the short duration of the course and lack of opportunity for detailed assessment we

believe a credit/no credit grading basis makes sense.

Course Information

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Subject Code

ENBUS

Number

601

Title

Business and the Case for Sustainability

Abbreviated Title

Bus. Case for Sustainability

Description

This on-site intensive course introduces students to basic business concepts and integrates them with concerns for sustainability. The underlying emphasis is on the value and rationale, opportunities and risks for businesses to undertake and integrate environmental and social sustainability initiatives. Business topics to be covered include an introduction to concepts and terminology from finance, accounting, strategy, marketing, organization behaviour and operations. Guests from academia, industry, governments, and non-profit organizations present topics and case studies. Students also learn about the MEB program, meet faculty members, meet each other, and are introduced to distance education tools.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Proposed

Grading Basis

Credit/No Credit

Existing

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. Complete all of the following
 - Enrolled in:
 - Master of Environment & Business (MEB) - Master of Environment and Business (MEB)

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

Prerequisites

- ENBUS 620 - Business Operations and Sustainability
- ENBUS 630 - Enterprise Marketing and Social Accountability
- ENBUS 640 - Strategies for Sustainable Enterprises
- ENBUS 650 - Environmental Finance

[View Program](#)
[View Program](#)
[View Program](#)
[View Program](#)

ENBUS 632 - Sustainability Reporting

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number				
Graduate	<table><tr><td>Proposed</td></tr><tr><td>Effective Term and Year Fall 2026</td></tr><tr><td>Existing</td></tr><tr><td>Effective Term and Year Fall 2023</td></tr></table>	Proposed	Effective Term and Year Fall 2026	Existing	Effective Term and Year Fall 2023	13554	1
Proposed							
Effective Term and Year Fall 2026							
Existing							
Effective Term and Year Fall 2023							

Proposal Details

Proposal Type
Change

Academic Unit Approval
2026-03-06

Unit Weight/Number Changes
No

Rationale for Change

Enrollment will be managed with course reserves during scheduling going forward to all SEED graduate students to register without permission numbers for the courses they are eligible to take as part of their degree program.

Course Information

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Subject Code

ENBUS

Number

632

Title

Sustainability Reporting

Abbreviated Title

Sustainability Reporting

Description

This course builds students' competencies in sustainability indicators, reporting and corporate accountability approaches for multinational corporations and other types of organizations. The course examines global reporting standards for environmental, social and sustainability reporting that are relevant to all sectors of industry and society. It covers the identification and roles of stakeholders certification and auditing expectations and procedures. Content addresses materiality in sustainability reporting; regulatory context; legal implications; interrelations with financial accounting practices and standards.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add**

Proposed

Consent to Drop

No consent required

Consent to Add
No consent required

Existing

Consent to Add
Instructor consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

There are no dependencies

ENBUS 642 - Stakeholder Engagement, Collaborations and Partnerships

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Effective Date & Career

Career

Graduate

Effective Term and Year

Quest Course ID

13556

Offering Number

1

Proposed
Effective Term and Year Fall 2026
Existing
Effective Term and Year Fall 2023

Proposal Details

Proposal Type
Change

Academic Unit Approval
2026-03-06

Unit Weight/Number Changes
No

Rationale for Change

Enrollment will be managed with course reserves during scheduling going forward to all SEED graduate students to register without permission numbers for the courses they are eligible to take as part of their degree program.

Course Information

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Subject Code
ENBUS

Number
642

Title

Stakeholder Engagement, Collaborations and Partnerships

Abbreviated Title

Stakeholders, Collaborations

Description

This course builds competences in the development and deployment of strategies and processes (in for-and not-for-profit organizations) to engage both internal and external stakeholders in opportunities to accelerate sustainability. Content covers: the identification, characterization and valuation of primary and secondary stakeholders; drivers and challenges; engagement approaches, including traditional and social media forms of communication, consultation, conflict resolution, and cross-sector partnerships. Content also introduces: structures, including informal vs. formal interactions, face-to-face and distance meetings, industry associations, joint ventures, public-private partnerships, networks and business to not-for-profit collaborations; processes, such as partnership formation, decision-making, monitoring of progress; and strategic considerations, such as business value, risk management, control vs. influence, barriers and confluence points. Students

working as a team will present their recommendations on a real time case study to stakeholders involved.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Proposed

Consent to Add

No consent required

Existing

Consent to Add

Instructor consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

There are no dependencies

SUSM 620 - Sustainable Operations

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2023

Quest Course ID

14569

Offering Number

1

Proposal Details

Proposal Type

Change

Academic Unit Approval

2026-03-06

Unit Weight/Number Changes

No

Rationale for Change

Enrollment will be managed with course reserves during scheduling going forward to all SEED graduate students to register without permission numbers for the courses they are eligible to take as part of their degree program.

Course Information

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Subject Code

SUSM

Number

620

Title

Sustainable Operations

Abbreviated Title

Sust. Operations

Description

This course explores the foundations of operations management in the context of sustainability. Through the use of both peer-reviewed and practitioner articles, this course will provide students with a comprehensive understanding of the core concepts in the field of operations management while integrating emergent social and environmental issues. Theoretical and empirical exploration of core operations concepts such as supply chain management, process configuration, quality and process improvement, and lean systems will be undertaken. Once a strong foundational understanding of these core concepts is achieved, students will then explore the opportunities and threats posed by emergent social and environmental issues to organizations, and how those issues can be integrated into the strategy underlying operations and process management. Concepts such as eco-efficiency, sustainable supply chain management, environmental management systems (e.g., ISO 14000), and life cycle assessment will be explored.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Proposed

Consent to Add
No consent required

Existing

Consent to Add
Instructor consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

There are no dependencies

Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Fall 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	14568	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2026-03-06

Unit Weight/Number Changes
No

Rationale for Change

Enrollment will be managed with course reserves during scheduling going forward to all SEED graduate students to register without permission numbers for the courses they are eligible to take as part of their degree program.

Course Information

Faculty Faculty of Environment	Academic Unit School of Environment, Enterprise and Development
Subject Code SUSM	Number 630
Title Marketing for Sustainability	
Abbreviated Title	

Marketing for Sustainability

Description

Marketing for sustainability is a key component of a successful business strategy in today's marketplace. Through a business-to-consumer lens, this course uses the principles of marketing and social psychology to explore ways in which businesses can foster sustainable behaviour through the application of both green marketing and social marketing tools. The course introduces core tools for sustainability marketing including green marketing strategies, behaviour change theories and principles of community-based social marketing.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Proposed

Consent to Add
No consent required

Existing

Consent to Add
Instructor consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes**Workflow Information****Workflow Path**

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

There are no dependencies

SUSM 680 - Industrial Ecology: Principles and Approaches

[Top](#)**Effective Date & Career****Career**

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2023

Quest Course ID

16568

Offering Number

1

Proposal Details**Proposal Type**

Change

Academic Unit Approval

2026-03-06

Unit Weight/Number Changes

No

Rationale for Change

Enrollment will be managed with course reserves during scheduling going forward to all SEED graduate students to register without permission numbers for the courses they are eligible to take as part of their degree program.

Course Information**Faculty**

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Subject Code

SUSM

Number

680

Title

Industrial Ecology: Principles and Approaches

Abbreviated Title

Industrial Ecology

Description**Proposed****Description**

Industrial ecology is the study of flows and stocks of materials and energy as humans interact with nature. Conceived as a metaphor, industrial ecology provides understanding to support design and management of industrial systems. The course introduces key ideas, theories, and terminology for industrial ecology using seminal and current articles that define the field. Fundamental principles and approaches are explored, including social and urban metabolism, input/output analysis, life cycle assessment and material flow analysis.

Existing**Description**

Course description: Industrial ecology is the study of flows and stocks of materials and energy as humans interact with nature. Conceived as a metaphor, industrial ecology provides understanding to support design and management of industrial systems. The course introduces key ideas, theories, and terminology for industrial ecology using seminal and current articles that define the field. Fundamental principles and approaches are explored, including social and urban metabolism, input/output analysis, life cycle assessment and material flow analysis.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Proposed

Consent to Add
No consent required

Existing

Consent to Add
Instructor consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

There are no dependencies

PhD in Sustainability Management - Doctor of Philosophy (PhD) in Sustainability Management

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year

Spring 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-07

Quality Assurance Designation

Minor Modification Qad

Is there an impact to existing students?

Yes

Impact on Existing Students

Students who entered the program in fall 2025 will take the Comprehensive Exam or have the option of taking the Qualifying Exam in June 2026. Students in other cohorts who have yet to take the Qualifying Exam will have the choice to take the Comprehensive Exam or Qualifying Exam between January 1st and December 31st 2026. Currently, there are no students seeking a re-assessment of the Qualifying Exam (students who receive a re-examination outcome on the first exam are given another scheduled opportunity in the future). Students who enter the program in or after fall 2026 will be required to complete the Comprehensive Exam.

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Changing the “Qualifying Examination” milestone to a “Comprehensive Examination” milestone.

Based on discussions with the Sustainability Management Ph D Qualifying Exam committee, the SEED Grad Team, and other faculty, there are several reasons to justifying removing the Qualifying Exam. The Qualifying Exam has emerged as a structural pressure point within SEED’s doctoral program, raising concerns about its effectiveness in supporting student learning outcomes, degree progression, and overall success. Evidence suggests a moderate failure and re-examination rate, which was found to undermine student confidence and create uneven experiences across the program. Both faculty and students express differing opinions regarding the scope and content that should be examined, contributing to inconsistency and dissatisfaction with the exam format.

Given the broad scope of the SUSM field, it is inherently difficult to design a reading list that captures sufficient breadth and depth to serve as a fair and effective assessment. This structural challenge, compounded by the stress the exam places on students creates an environment that risks unnecessary attrition.

In addition, the current process of adjudicating the exam imposes a substantial administrative burden. Finally, the Faculty of Environment is in the process of exploring greater coordination and collaboration amongst its graduate programs where switching the Qualifying Exam to a Comprehensive Exam will be helpful for identifying synergies and efficiencies for improved student outcomes and student experiences. Transitioning to a Comprehensive Exam administered and adjudicated by a student’s committee could alleviate these challenges by distributing responsibility more evenly among faculty and over time. Such a model would not only reduce structural pressures but also provide a more supportive and equitable framework for assessing student readiness.

General Program/Plan Information

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Graduate Field of Study

Environment, Enterprise and Development

Faculty

Faculty of Environment

Program/Plan Name

Doctor of Philosophy (Ph D) in Sustainability Management

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Admit Term(s)

Fall

Delivery Mode

On-campus

Registration Option(s)

Full-time, Part-time

Admissions

Admission Requirements: Minimum Requirements

- A Master's degree with distinction (typically an overall average of at least 80%, or equivalent).
- Facility with research methods is expected, whether through the presentation of specific graduate courses or original research at the graduate level.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé
- Statement of interest
- Transcript(s)

Admission Requirements: References

- Number of references: 3
- Type of references: academic references are required unless a professional reference is specified.

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Graduate Course Requirements

Complete all of the following

- Complete all the following:
 - SUSM701 - Theories of Sustainability Management (0.50)
 - SUSM702 - Methods of Sustainability Management (0.50)
- 2 elective courses Students may request permission from the SEED Graduate Advisor to enrol in elective courses in other graduate programs that will complement their program of study.

Milestone Requirements

Proposed

Milestone Requirements

Ph D Professional Development Seminar I and Ph D Professional Development Seminar II

- Ph D professional development seminars allow students to gain skills suitable to knowledge mobilization and careers outside of academia.
- Students are required to complete two professional development seminars.
- Normally seminars should be completed before the Ph D qualifying examination.

Ph D Comprehensive Examination

- Students are required to meet the University-level Ph D [Comprehensive Examination](#) minimum requirements.
- The comprehensive examination should be completed before the end of the second year (6th term) of the program.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis Proposal

- Students are required to develop a written Ph D thesis proposal by the end of the term following completion of the qualifying examination.
- Students must present and defend their thesis proposal in an oral examination by the student's Ph D advisory committee.
- The examination, including any oral presentation associated with the examination, will be open to members of the University community.
- The thesis proposal must be approved by the advisory committee and constitutes an agreement with the student regarding their plan of doctoral research.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis

- The Ph D thesis presents original research written either as a monograph or as a paper-based thesis.
- University requirements for the Ph D thesis examination are outlined in the “Minimum requirements for the Ph D degree” section of the Graduate Studies Academic Calendar (GSAC).
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Existing

Milestone Requirements

Ph D Professional Development Seminar I and Ph D Professional Development Seminar II

- Ph D professional development seminars allow students to gain skills suitable to knowledge mobilization and careers outside of academia.
- Students are required to complete two professional development seminars.
- Normally seminars should be completed before the Ph D qualifying examination.

Ph D Qualifying Examination

- Students are required to meet the University-level Ph D [Qualifying Examination](#) minimum requirements.
- The qualifying examination should be completed before the end of the second year (6th term) of the program.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis Proposal

- Students are required to develop a written Ph D thesis proposal by the end of the term following completion of the qualifying examination.
- Students must present and defend their thesis proposal in an oral examination by the student's Ph D advisory committee.
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- The thesis proposal must be approved by the advisory committee and constitutes an agreement with the student regarding their plan of doctoral research.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis

- The Ph D thesis presents original research written either as a monograph or as a paper-based thesis.
- University requirements for the Ph D thesis examination are outlined in the “Minimum requirements for the Ph D degree” section of the Graduate Studies Academic Calendar (GSAC).
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Notes

- [School of Environment, Enterprise and Development \(SEED\) website](#)
- [Doctor of Philosophy \(Ph D\) in Sustainability Management future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Environment

Dependencies

Prerequisites

- SUSM 701 - Theories of Sustainability Management
- SUSM 702 - Methods of Sustainability Management

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[View Program](#)

PhD in Sustainability Management-Aeronautics - Doctor of Philosophy (PhD) in Sustainability Management - Aeronautics

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed
Effective Term and Year Spring 2026
Existing
Effective Term and Year Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-07

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?

Yes

Impact on Existing Students

Students who entered the program in fall 2025 will take the Comprehensive Exam or have the option of taking the Qualifying Exam in June 2026. Students in other cohorts who have yet to take the Qualifying Exam will have the choice to take the Comprehensive Exam or Qualifying Exam between January 1st and December 31st 2026. Currently, there are no students seeking a re-assessment of the Qualifying Exam (students who receive a re-examination outcome on the first exam are given another scheduled opportunity in the future). Students who enter the program in or after fall 2026 will be required to complete the Comprehensive Exam.

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Changing the “Qualifying Examination” milestone to a “Comprehensive Examination” milestone.

Based on discussions with the Sustainability Management Ph D Qualifying Exam committee, the SEED Grad Team, and other faculty, there are several reasons to justifying removing the Qualifying Exam. The Qualifying Exam has emerged as a structural pressure point within SEED’s doctoral program, raising concerns about its effectiveness in supporting student learning outcomes, degree progression, and overall success. Evidence suggests a moderate failure and re-examination rate, which was found to undermine student confidence and create uneven experiences across the program. Both faculty and students express differing opinions regarding the scope and content that should be examined, contributing to inconsistency and dissatisfaction with the exam format.

Given the broad scope of the SUSM field, it is inherently difficult to design a reading list that captures sufficient breadth and depth to serve as a fair and effective assessment. This structural challenge, compounded by the stress the exam places on students creates an environment that risks unnecessary attrition.

In addition, the current process of adjudicating the exam imposes a substantial administrative burden. Finally, the Faculty of Environment is in the process of exploring greater coordination and collaboration amongst its graduate programs where switching the Qualifying Exam to a Comprehensive Exam will be helpful for identifying synergies and efficiencies for improved student outcomes and student experiences. Transitioning to a Comprehensive Exam administered and adjudicated by a student’s committee could alleviate these challenges by distributing responsibility more evenly among faculty and over time. Such a model would not only reduce structural pressures but also provide a more supportive and equitable framework for assessing student readiness.

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Graduate Field of Study

Environment, Enterprise and Development

Faculty

Faculty of Environment

Program/Plan Name

Doctor of Philosophy (Ph D) in Sustainability Management - Aeronautics

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Program Types

Collaborative

Admit Term(s)

Fall

Delivery Mode

On-campus

Registration Option(s)

Full-time, Part-time

Admissions

Admission Requirements: Minimum Requirements

- A Master's degree with distinction (typically an overall average of at least 80%, or equivalent).
- Facility with research methods is expected, whether through the presentation of specific graduate courses or original research at the graduate level.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé
- Transcript(s)

Admission Requirements: References

- Number of references: 3
- Type of references: academic references are required unless a professional reference is specified.

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Graduate Course Requirements

No Rules

Graduate Course Requirements

- Students must complete the following courses:
 - AVIA 601 Interdisciplinary Aeronautics
 - AVIA 802 Interdisciplinary Aeronautics Project - Ph D Level
 - SUSM 701 Advanced theories
 - SUSM 702 Research design and methods
 - 1 elective course
- Students who have already completed AVIA 601 and AVIA 602 as part of their Masters Aeronautics degree, must complete the following course requirements:
 - AVIA 802 Interdisciplinary Aeronautics Project - Ph D Level or 1 elective graduate course that is applicable to aeronautics (approved by their supervisor with support from the Director of the Collaborative Aeronautics Program)
 - SUSM 701 Advanced theories
 - SUSM 702 Research design and methods
 - 2 elective courses
- Students may request permission from the SEED Graduate Advisor to enrol in an elective course in other graduate programs that will complement their program of study.
- This degree is offered through the Collaborative Aeronautics Program. This program, jointly offered by a range of

departments/schools across several academic faculties, promotes the development of interdisciplinary perspectives on aeronautics. Collaborative Aeronautics Program students complete their specialist training in their respective home departments/schools, while working with colleagues from a variety of other departments/schools in core interdisciplinary courses (AVIA 601 and AVIA 602/802).

Milestone Requirements

Proposed

Milestone Requirements

Ph D Professional Development Seminar I and Ph D Professional Development Seminar II

- Ph D professional development seminars allow students to gain skills suitable to knowledge mobilization and careers outside of academia.
- Students are required to complete two professional development seminars.
- Normally seminars should be completed before the Ph D qualifying examination.

Ph D Comprehensive Examination

- Students are required to meet the University-level Ph D [Comprehensive Examination](#) minimum requirements.
- The comprehensive examination should be completed before the end of the second year (6th term) of the program.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis Proposal

- Students are required to develop a written Ph D thesis proposal applicable to Sustainability Management and Aeronautics by the end of the term following completion of the qualifying examination.
- Students must present and defend their thesis proposal in an oral examination by the student's Ph D advisory committee.
- The examination, including any oral presentation associated with the examination, will be open to members of the University community.
- The thesis proposal must be approved by the advisory committee and constitutes an agreement with the student regarding their plan of doctoral research.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis

- The Ph D thesis applicable to Sustainability Management and Aeronautics must present original research written either as a monograph or as a paper-based thesis.
- University requirements for the Ph D thesis examination are outlined in the “Minimum requirements for the Ph D degree” section of the Graduate Studies Academic Calendar (GSAC).
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Existing

Milestone Requirements

Ph D Professional Development Seminar I and Ph D Professional Development Seminar II

- Ph D professional development seminars allow students to gain skills suitable to knowledge mobilization and careers outside of academia.
- Students are required to complete two professional development seminars.
- Normally seminars should be completed before the Ph D qualifying examination.

Ph D Qualifying Examination

- Students are required to meet the University-level Ph D [Qualifying Examination](#) minimum requirements.
- The qualifying examination should be completed before the end of the second year (6th term) of the program.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis Proposal

- Students are required to develop a written Ph D thesis proposal applicable to Sustainability Management and Aeronautics by the end of the term following completion of the qualifying examination.
- Students must present and defend their thesis proposal in an oral examination by the student's Ph D advisory committee.
- The examination, including any oral presentation associated with the examination, will be open to members of the University community.
- The thesis proposal must be approved by the advisory committee and constitutes an agreement with the student regarding their plan of doctoral research.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis

- The Ph D thesis applicable to Sustainability Management and Aeronautics must present original research written either as a monograph or as a paper-based thesis.

- University requirements for the Ph D thesis examination are outlined in the “Minimum requirements for the Ph D degree” section of the Graduate Studies Academic Calendar (GSAC).
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Notes

- [School of Environment, Enterprise and Development \(SEED\) website](#)
- [Doctor of Philosophy \(Ph D\) in Sustainability Management - Aeronautics future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

Prerequisites

- SUSM 701 - Theories of Sustainability Management
- SUSM 702 - Methods of Sustainability Management

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[View Program](#)

Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-07

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
Yes

Impact on Existing Students

Students who entered the program in fall 2025 will take the Comprehensive Exam or have the option of taking the Qualifying Exam in June 2026. Students in other cohorts who have yet to take the Qualifying Exam will have the choice to take the Comprehensive Exam or Qualifying Exam between January 1st and December 31st 2026. Currently, there are no students seeking a re-assessment of the Qualifying Exam (students who receive a re-examination outcome on the first exam are given another scheduled opportunity in the future). Students who enter the program in or after fall 2026 will be required to complete the Comprehensive Exam.

Is the credential name changing?
No

Graduate Co-operative Requirements
Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Changing the “Qualifying Examination” milestone to a “Comprehensive Examination” milestone.

Based on discussions with the Sustainability Management Ph D Qualifying Exam committee, the SEED Grad Team, and other faculty, there are several reasons to justifying removing the Qualifying Exam. The Qualifying Exam has emerged as a structural pressure point within SEED’s doctoral program, raising concerns about its effectiveness in supporting student learning outcomes, degree progression, and overall success. Evidence suggests a moderate failure and re-examination rate, which was found to undermine student confidence and create uneven experiences across the program. Both faculty and students express differing opinions regarding the scope and content that should be examined, contributing to inconsistency and dissatisfaction with the exam format.

Given the broad scope of the SUSM field, it is inherently difficult to design a reading list that captures sufficient breadth and depth to serve as a fair and effective assessment. This structural challenge, compounded by the stress the exam places on students creates an environment that risks unnecessary attrition.

In addition, the current process of adjudicating the exam imposes a substantial administrative burden. Finally, the Faculty of Environment is in the process of exploring greater coordination and collaboration amongst its graduate programs where switching the Qualifying Exam to a Comprehensive Exam will be helpful for identifying synergies and efficiencies for improved student outcomes and student experiences. Transitioning to a Comprehensive Exam administered and adjudicated by a student’s committee could alleviate these challenges by distributing responsibility more evenly among faculty and over time. Such a model would not only reduce structural pressures but also provide a more supportive and equitable framework for assessing student readiness.

General Program/Plan Information

Faculty

Faculty of Environment

Academic Unit

School of Environment, Enterprise and Development

Graduate Field of Study

Environment, Enterprise and Development

Faculty

Faculty of Environment

Program/Plan Name

Doctor of Philosophy (Ph D) in Sustainability Management - Water

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Program Types

Collaborative

Admit Term(s)

Fall

Delivery Mode

On-campus

Registration Option(s)

Full-time, Part-time

Admissions

Admission Requirements: Minimum Requirements

- A Master's degree with distinction (typically an overall average of at least 80%, or equivalent).
- Facility with research methods is expected, whether through the presentation of specific graduate courses or original research at the graduate level.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé
- Statement of interest
- Transcript(s)

Admission Requirements: References

- Number of references: 3
- Type of references: academic references are required unless a professional reference is specified.

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Graduate Course Requirements

Complete all of the following

- Complete all the following:
 - SUSM701 - Theories of Sustainability Management (0.50)
 - SUSM701 - Theories of Sustainability Management (0.50)
 - WATER601 - Integrated Water Management (0.50)
 - WATER602 - Integrated Water Management Project (0.50)
- This degree is offered through the Collaborative Water Program. This program, jointly offered by a range of departments across several academic Faculties, promotes the development of interdisciplinary perspectives on water. Collaborative Water Program students complete their specialist training in their respective home departments, while working with colleagues from a variety of other departments in core interdisciplinary courses (WATER 601 and WATER 602). Students who have already completed WATER 601 and WATER 602 as part of their Masters Water degree, must complete the following course requirement: 1 graduate level water course from outside the student's home Faculty agreed to by the student's Supervisor and the Collaborative Water Program Director. Students may request permission from the SEED Graduate Advisor to enrol in elective courses in other graduate programs that will complement their program of study.

Milestone Requirements

Proposed

Milestone Requirements

Collaborative Research Seminar I

- Students are required to present a seminar on their thesis or major paper research proposal and, if appropriate, early stage results to current and past Water students and Water Institute faculty members. Seminars will normally occur following the completion of WATER 601 and WATER 602. Seminars will provide the opportunity for students to discuss how learnings from Water courses were applied in, or influenced, research proposals or research work in the student's home department. Seminars will normally be poster presentations at Water Institute organized events. The seminar is not an oral examination of the thesis or paper; rather, its purpose is to develop the student's ability to communicate their research in an organized and informative manner.

Collaborative Research Seminar II

- Students who have completed the Collaborative Research Seminar 1 as part of their Masters Water degree, must complete the Collaborative Research Seminar 2.
- Students are required to present a seminar on their Ph D thesis proposal to current and past Water students and Water Institute faculty members. Seminars will normally occur following the completion of required courses and the comprehensive exam. Seminars should present how learnings from the Collaborative Water Program were applied in, or influenced, thesis proposals. Seminars will normally be poster presentations or talks at Water Institute organized events. The seminar is not an oral examination of the thesis proposal; rather, its purpose is to develop the student's ability to communicate their research in an organized and informative manner.

Collaborative Academic Contribution

- Students who have completed the Collaborative Water Program Research Seminar 1 as part of their Masters Water degree, must complete the Collaborative Academic Contribution milestone.
- Students are required to make an academic contribution to the Collaborative Water Program. The proposed contribution will be documented by the student and approved by the student's Supervisor and the Collaborative Water Program Director. Potential contributions may include, but not be limited to:
 - Development of new or improved curricula or course content;
 - Delivery of a lecture(s);
 - Preparation of a publication;
 - Preparation of a case study;
 - Mentorship of a group of students.

Ph D Professional Development Seminar I and Ph D Professional Development Seminar II

- Ph D professional development seminars allow students to gain skills suitable to knowledge mobilization and careers outside of academia.
- Students are required to complete two professional development seminars.
- Normally seminars should be completed before the Ph D qualifying examination.

Ph D Comprehensive Examination

- Students are required to meet the University-level Ph D [Comprehensive Examination](#) minimum requirements.
- The comprehensive examination should be completed before the end of the second year (6th term) of the program.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis Proposal

- Students are required to develop a written Ph D thesis proposal by the end of the term following completion of the qualifying examination.
- Students must present and defend their thesis proposal in an oral examination by the student's Ph D advisory committee.
- The examination, including any oral presentation associated with the examination, will be open to members of the University community.
- The thesis proposal must be approved by the advisory committee and constitutes an agreement with the student regarding their plan of doctoral research.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis

- The Ph D thesis presents original research written either as a monograph or as a paper-based thesis.
- University requirements for the Ph D thesis examination are outlined in the “Minimum requirements for the Ph D degree” section of the Graduate Studies Academic Calendar (GSAC).
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Existing

Milestone Requirements

Collaborative Research Seminar I

- Students are required to present a seminar on their thesis or major paper research proposal and, if appropriate, early stage results to current and past Water students and Water Institute faculty members. Seminars will normally occur following the completion of WATER 601 and WATER 602. Seminars will provide the opportunity for students to discuss how learnings from Water courses were applied in, or influenced, research proposals or research work in the student's home department. Seminars will normally be poster presentations at Water Institute organized events. The seminar is not an oral examination of the thesis or paper; rather, its purpose is to develop the student's ability to communicate their research in an organized and informative manner.

Collaborative Research Seminar II

- Students who have completed the Collaborative Research Seminar 1 as part of their Masters Water degree, must complete the Collaborative Research Seminar 2.
- Students are required to present a seminar on their Ph D thesis proposal to current and past Water students and Water Institute faculty members. Seminars will normally occur following the completion of required courses and the comprehensive exam. Seminars should present how learnings from the Collaborative Water Program were applied in, or influenced, thesis proposals. Seminars will normally be poster presentations or talks at Water Institute organized events. The seminar is not an oral examination of the thesis proposal; rather, its purpose is to develop the student's ability to communicate their research in an organized and informative manner.

Collaborative Academic Contribution

- Students who have completed the Collaborative Water Program Research Seminar 1 as part of their Masters Water degree, must complete the Collaborative Academic Contribution milestone.
- Students are required to make an academic contribution to the Collaborative Water Program. The proposed contribution will be documented by the student and approved by the student's Supervisor and the Collaborative Water Program Director. Potential contributions may include, but not be limited to:
 - Development of new or improved curricula or course content;
 - Delivery of a lecture(s);
 - Preparation of a publication;
 - Preparation of a case study;
 - Mentorship of a group of students.

Ph D Professional Development Seminar I and Ph D Professional Development Seminar II

- Ph D professional development seminars allow students to gain skills suitable to knowledge mobilization and careers outside of academia.
- Students are required to complete two professional development seminars.
- Normally seminars should be completed before the Ph D qualifying examination.

Ph D Qualifying Examination

- Students are required to meet the University-level Ph D [Qualifying Examination](#) minimum requirements.
- The qualifying examination should be completed before the end of the second year (6th term) of the program.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis Proposal

- Students are required to develop a written Ph D thesis proposal by the end of the term following completion of the qualifying examination.
- Students must present and defend their thesis proposal in an oral examination by the student's Ph D advisory committee.
- The examination, including any oral presentation associated with the examination, will be open to members of the University community.
- The thesis proposal must be approved by the advisory committee and constitutes an agreement with the student regarding their plan of doctoral research.
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Ph D Thesis

- The Ph D thesis presents original research written either as a monograph or as a paper-based thesis.
- University requirements for the Ph D thesis examination are outlined in the “Minimum requirements for the Ph D degree” section of the Graduate Studies Academic Calendar (GSAC).
- Further details are available from the [School of Environment, Enterprise and Development \(SEED\) website](#).

Notes

- [School of Environment, Enterprise and Development \(SEED\) website](#)
- [Doctor of Philosophy \(Ph D\) in Sustainability Management - Water future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Environment

Dependencies

Prerequisites

- WATER 601 - Integrated Water Management
- SUSM 701 - Theories of Sustainability Management
- SUSM 702 - Methods of Sustainability Management

[View Program](#)

[View Program](#)

[View Program](#)

Date 2026/04/08

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Meeting Information

Agenda Page Title

SGC - Consent Agenda - Faculty of Health - April 16, 2026

Career Level
Graduate,

Faculty/Unit
Health

Date
2026-04-16

Summary

Course Proposals:

1) School of Public Health Sciences:

HLTH:

4 course revisions

2 new courses

Program Proposals:

1) School of Public Health Sciences:

1.1) PhD in Public Health Sciences

1.2) PhD in Public Health Sciences - Aging, Health and Well-Being

1.3) PhD in Public Health Sciences - Water

a) Updating the course requirements text in the GSAC to provide greater clarity for our students. Replacing HLTH 719 (0.50) with HLTH 717M (0.25) and HLTH 718M (0.25).

Other Business

Attachment(s)

Course Proposals

Courses: Retire

No proposals have been added.

Courses: New

Code	Title	Type	Workflow Step
------	-------	------	---------------

HLTH 667M	Generative AI Core Techniques, Architectures and Algorithms for Data Representation and Generation	Courses	SGC, Senate Graduate Council (SGC)
HLTH 668M	Applied Generative AI in Health: Evaluation, Safety, Governance, and Responsible Use	Courses	SGC, Senate Graduate Council (SGC)

Courses: Changes

Code	Title	Type	Workflow Step
HLTH 657M	Application of Artificial Intelligence in Health	Courses	SGC, Senate Graduate Council (SGC)
HLTH 658M	Machine Learning Techniques in Health	Courses	SGC, Senate Graduate Council (SGC)
HLTH 717M	Advanced Artificial Intelligence in Health I	Courses	SGC, Senate Graduate Council (SGC)
HLTH 718M	Natural Language Processing Algorithm and Application in Health	Courses	SGC, Senate Graduate Council (SGC)

Programs & Plans Proposals

Programs & Plans: Retire

No proposals have been added.

Programs & Plans: Major Modifications

No proposals have been added.

Programs & Plans: Minor Modifications

Code	Title	Type	Workflow Step
PhD in Public Health Sciences	Doctor of Philosophy (PhD) in Public Health Sciences	Programs	SGC, Senate Graduate Council (SGC)
PhD in Public Health Sciences- Aging, Health & Well-Being	Doctor of Philosophy (PhD) in Public Health Sciences - Aging, Health and Well-Being	Programs	SGC, Senate Graduate Council (SGC)
PhD in Public Health Sciences- Water	Doctor of Philosophy (PhD) in Public Health Sciences - Water	Programs	SGC, Senate Graduate Council (SGC)

Regulations Proposals

Regulations: Retire

No proposals have been added.

Regulations: New

No proposals have been added.

Regulations: Changes

No proposals have been added.

HLTH 667M - Generative AI Core Techniques, Architectures and Algorithms for Data Representation and Generation

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Effective Date & Career

Career
Graduate

Effective Term and Year
Fall 2026

Proposal Details

Proposal Type
New

Academic Unit Approval
2025-11-21

Rationale for New Course

Generative AI is rapidly reshaping clinical medicine, public health and health system operations—powering innovations such as Ambience AI for clinical documentation assistants, decision-support copilots, assisted diagnosis and workflow automation. However, most medical and public health professionals engage with these tools at the application level, without understanding the underlying generative mechanisms that drive model reliability, strengths, and limitations. This technical gap poses risks: clinicians and public health professionals must be able to evaluate how generative models are built critically, how they represent data, how they fail, and what factors influence their behaviour. A foundational understanding of key techniques used in Generative AI allows learners to interpret outputs with appropriate caution, identify potential biases, and collaborate effectively with data scientists, informaticians, and AI developers.

Course Information

Faculty
Faculty of Health

Academic Unit
School of Public Health Sciences

Subject Code
HLTH

Number
667M

Title
Generative AI Core Techniques, Architectures and Algorithms for Data Representation and Generation

Abbreviated Title
Gen AI Core Techniques

Description

This course provides an introduction to the computational and mathematical foundations of Generative Artificial Intelligence (Gen AI), with an emphasis on the models and algorithms that underpin modern generative systems. Students will learn the principles behind core generative model families, including autoencoders, variational autoencoders (VAEs), generative adversarial networks (GANs), autoregressive models, normalizing flows, diffusion models, and transformer-based large language models. Topics include latent representations, probabilistic modelling, attention mechanisms, optimization strategies, training objectives, and challenges such as mode collapse, stability, and scalability. Tutorial sessions will guide students through the implementation of selected generative architectures in Python and Py Torch, exploring training dynamics, evaluating generated outputs, and understanding model behaviour through visualization and diagnostics.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Tutorial Project

Primary Component

Lecture

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules**Consent to Add**

Instructor consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Health

Dependencies

There are no dependencies

HLTH 668M - Applied Generative AI in Health: Evaluation, Safety, Governance, and Responsible Use

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Effective Date & Career

Career
Graduate

Effective Term and Year
Fall 2026

Proposal Details

Proposal Type
New

Academic Unit Approval
2025-11-21

Rationale for New Course

Generative AI is increasingly embedded in healthcare and public health workflows—from clinical documentation and patient communication to decision support, triage, diagnosis, and disease surveillance. As these systems become more capable, the need for clinicians, public health professionals, and health leaders to critically evaluate Gen AI performance, risks, and ethical implications grows substantially. Misuse or overreliance can lead to bias, unsafe recommendations, privacy breaches, or erosion of trust, while thoughtful, evidence-based deployment can enhance the quality of care, reduce administrative burden, and support equitable health outcomes. This course equips learners with the competencies necessary to assess Gen AI tools in real-world settings, understand their limitations, identify governance needs, and engage in the development of a responsible AI strategy and policy. Complementing the Technical Foundations course, this module ensures that learners can translate Gen AI capabilities into safe, equitable, and effective health system applications.

Course Information

Faculty

Faculty of Health

Academic Unit

School of Public Health Sciences

Subject Code

HLTH

Number

668M

Title

Applied Generative AI in Health: Evaluation, Safety, Governance, and Responsible Use

Abbreviated Title

Gen AI in Health

Description

This course focuses on the practical application, evaluation, and responsible integration of Generative Artificial Intelligence (Gen AI) technologies in clinical medicine, public health, and health system operations. Students will explore real-world Gen AI tools—including large language models (LLMs), clinical documentation copilots, chatbot, and synthetic data platforms—and learn how to assess accuracy, reliability, privacy risks, fairness impacts, and clinical safety. Emphasis is placed on practical evaluation frameworks, health-sector governance, and the regulatory context (PHIPA, PIPEDA, FDA/Health Canada guidance). Students will analyze real-world use cases, such as AI Scribe for clinical summarization, Chatbot for public health communication, LLM for social media data processing and qualitative analysis, and synthetic data generation. Ethical considerations—including bias, hallucination risks, accountability, safety monitoring, and transparency—are woven throughout the case studies.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Reading

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

Instructor consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Health

Dependencies

There are no dependencies

HLTH 657M - Application of Artificial Intelligence in Health

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Effective Date & Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Spring 2026

Existing

Quest Course ID

16369

Offering Number

1

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-12-12

Unit Weight/Number Changes

No

Rationale for Change

To ensure appropriate access and preparation for students enrolling in the course:

- HLTH 605B is currently listed as a prerequisite. However, this restricts part-time MHIA students from enrolling HLTH 657M in the Winter term, since HLTH 605B is only offered in the Fall.
- To address this, HLTH 619 will be accepted as an alternative prerequisite, as it provides the necessary foundational programming skills.
- Additionally, HLTH 605A (the on-campus methods course) will be added as a prerequisite to allow Ph D students in Health Informatics research to enroll with relevant programming skills.

Course Information

Faculty

Faculty of Health

Academic Unit

School of Public Health Sciences

Subject Code

HLTH

Number

657M

Title

Application of Artificial Intelligence in Health

Abbreviated Title

AI Application in Health

Description

Proposed

Description

This course focuses on the application of machine learning (ML) and artificial intelligence (AI) techniques in the field of healthcare and public health settings. Big data sources available for population health studies will be introduced to students and challenges related to AI in health data will also be discussed. The learning activities consist of lectures, student-led journal club discussions and a term paper to propose the application of ML techniques to solve population health or public health problems. Students who do not have the prerequisites but have completed an equivalent course that provides programming skills may be permitted to enrol in the course at the instructor's discretion.

Existing

Description

This course focuses on the application of machine learning (ML) and artificial intelligence (AI) techniques in the field of in healthcare and public health settings. Big data sources available for population health studies will be introduced to students and challenges related to AI in health data will also be discussed. The learning activities consist of lectures, student-led journal club discussions and a term paper to propose the application of ML techniques to solve population health or public health problems.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Reading

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. Must have completed at least 1 of the following:

- **HLTH605A - Regression Models (0.50)****HLTH605B - Quantitative Methods and Analysis (0.50)****HLTH619 - Fundamental Research Methods in Health Informatics (0.50)**
- ~~HLTH605B - Quantitative Methods and Analysis (0.50)~~

Corequisites

No Rules

Antirequisites

No Rules

Course Notes**Workflow Information****Workflow Path**

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Health

Dependencies

There are no dependencies

HLTH 658M - Machine Learning Techniques in Health[Top](#)**Effective Date & Career****Career**

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Spring 2026

Existing

Effective Term and Year

Fall 2025

Quest Course ID

16798

Offering Number

1

Proposal Details**Proposal Type**

Change

Academic Unit Approval

2025-12-12

Unit Weight/Number Changes

No

Rationale for Change

To ensure appropriate access and preparation for students enrolling in the course:

- HLTH 605B is currently listed as a prerequisite. However, this restricts part-time MHIA students from enrolling HLTH 658M in the Winter term, since HLTH 605B is only offered in the Fall.
- To address this, HLTH 619 will be accepted as an alternative prerequisite, as it provides the necessary foundational programming skills.
- Additionally, HLTH 605A (the on-campus methods course) will be added as a prerequisite to allow Ph D students in Health Informatics research to enroll with relevant programming skills.

Course Information

Faculty

Faculty of Health

Academic Unit

School of Public Health Sciences

Subject Code

HLTH

Number

658M

Title

Machine Learning Techniques in Health

Abbreviated Title

Machine Learning Techniques

Description

Proposed

Description

This course focuses on the techniques of machine learning (ML) commonly used to solve healthcare and public health problems. Various analytics techniques, including data wrangling, visualization, unsupervised and supervised learning, will be introduced to students. Challenges and strategies related to missing data, imbalanced data and model selections will also be discussed. The learning activities consist of lectures, labs, and a final project to demonstrate the proficiency of ML techniques to solve population health or public health problems. Students who do not have the prerequisites but have completed an equivalent course that provides programming skills may be permitted to enrol in the course at the instructor's discretion.

Existing

Description

This course focuses on the techniques of machine learning (ML) commonly used to solve healthcare and public health problems. Various analytics techniques, including data wrangling, visualization, unsupervised and supervised learning, will be introduced to students. Challenges and strategies related to missing data, imbalanced data and model selections will also be discussed. The learning activities consist of lectures, labs, and a final project to demonstrate the proficiency of ML techniques to solve population health or public health problems.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Primary Component

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. Must have completed at least 1 of the following:

- **HLTH605A - Regression Models (0.50)HLTH605B - Quantitative Methods and Analysis (0.50)HLTH619 - Fundamental Research Methods in Health Informatics (0.50)**
- ~~HLTH605B - Quantitative Methods and Analysis (0.50)~~

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Health

Dependencies

Prerequisites

- HLTH 718M - Natural Language Processing Algorithm and Application in Health

[View Program](#)

HLTH 717M - Advanced Artificial Intelligence in Health I

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	Proposed Effective Term and Year Spring 2026	16799	1
	Existing Effective Term and Year Fall 2025		

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-12-12

Unit Weight/Number Changes
No

Rationale for Change

To ensure appropriate access and preparation for students enrolling in the course:

- HLTH 605B is currently listed as a prerequisite. However, the learning in the 717M course requires prior knowledge of Python programming and basic machine learning skills. We are removing this course as a prerequisite for 717M.
- To address this, HLTH 619 or HLTH 657M and HLTH658M (two modular courses) will be accepted as a prerequisite, as it provides the necessary foundational knowledge and Python programming skills.
- At lecturer's discretion, students with sufficient prior knowledge of health data and programming skills can also enroll in this course.

Course Information

Faculty

Faculty of Health

Academic Unit

School of Public Health Sciences

Subject Code

HLTH

Number

717M

Title

Advanced Artificial Intelligence in Health I

Abbreviated Title

AI In Health I

Description**Proposed****Description**

This course presents advanced applications of machine learning (ML) and artificial intelligence (AI) algorithms and their applications in solving challenges unique to health data. Common characteristics of big health data, such as multi-domain inputs, being observational, often unstructured, and potentially containing private information, are common barriers to the application of ML and AI in this field. This course will discuss some advanced ML solutions to those barriers and how AI advances are being applied to health. This is a modular seminar-style course. There will be a series of lectures from faculty members and researchers from the health and AI community. Students who do not have the prerequisites but have Python programming and ML skills may be permitted to enrol in the course at the instructor's discretion.

Existing**Description**

This course presents advanced applications of machine learning (ML) and artificial intelligence (AI) algorithms and their applications in solving challenges unique to health data. Common characteristics of big health data, such as multi-domain inputs, being observational, often unstructured, and potentially containing private information, are common barriers to the application of ML and AI in this field. This course will discuss some advanced ML solutions to those barriers and how AI advances are being applied to health. This is a modular seminar-style course. There will be a series of lectures from faculty members and researchers from the health and AI community.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Seminar Tutorial Laboratory Reading

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. Complete 1 of the following

- **Must have completed the following:**
- **HLTH619 - Fundamental Research Methods in Health Informatics (0.50)**
- **Must have completed the following:**
- **HLTH657M - Application of Artificial Intelligence in Health (0.25)**
- **HLTH658M - Machine Learning Techniques in Health (0.25)**
- ~~HLTH605B - Quantitative Methods and Analysis (0.50)~~

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Health

Dependencies

There are no dependencies

HLTH 718M - Natural Language Processing Algorithm and Application in Health

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Spring 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2025</div>	16800	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-12-12

Unit Weight/Number Changes
No

Rationale for Change

To ensure appropriate access and preparation for students enrolling in the course:

- The learning in the 717M course requires prior knowledge of Python programming and basic machine learning skills.
- To address this, HLTH 619 or HLTH 657M and HLTH 658M (two modular courses) will be accepted as a prerequisite, as it provides the necessary foundational knowledge and Python programming skills.
- At lecturer's discretion, students with sufficient prior knowledge of health data and programming skills can also enroll in this course.

Course Information

Faculty

Faculty of Health

Academic Unit

School of Public Health Sciences

Subject Code

Number

Title

Natural Language Processing Algorithm and Application in Health

Abbreviated Title

NLP in Health

Description**Proposed****Description**

This course presents natural language processing techniques (NLP) and their optimization and applications in healthcare and public health. Classic NLP techniques and the state-of-the-art transformer-based language processing models will be introduced. Challenges and barriers of processing and understanding medical notes, reports and social data will be discussed. This course will present some advanced NLP solutions to those barriers and how NLP advances are being applied to health. This is a modular seminar-style course. There will be a series of lectures from faculty members and researchers from the health and NLP community. Students who do not have the prerequisites but have Python programming and ML skills may be permitted to enrol in the course at the instructor's discretion.

Existing**Description**

This course presents natural language processing techniques (NLP) and their optimization and applications in healthcare and public health. Classic NLP techniques and the state-of-the-art transformer-based language processing models will be introduced. Challenges and barriers of processing and understanding medical notes, reports and social data will be discussed. This course will present some advanced NLP solutions to those barriers and how NLP advances are being applied to health. This is a modular seminar-style course. There will be a series of lectures from faculty members and researchers from the health and NLP community.

Units

0.25

Exceptions to Fees or Academic Progress Units

No

Components

Lecture Tutorial Laboratory Reading Seminar

Primary Component

Seminar

Grading Information**Grading Basis**

Numerical Grading Basis

Cross-Listing Information**Is this course cross-listed?**

No

Repeatable Courses**Can this course be repeated for credit?**

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. Complete 1 of the following

- **Must have completed the following:**
- **HLTH619 - Fundamental Research Methods in Health Informatics (0.50)**
- **Must have completed the following:**
- **HLTH657M - Application of Artificial Intelligence in Health (0.25)**
- HLTH658M - Machine Learning Techniques in Health (0.25)

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Health

Dependencies

There are no dependencies

PhD in Public Health Sciences - Doctor of Philosophy (PhD) in Public Health Sciences

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Effective Date and Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Winter 2026

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-12-12

Quality Assurance Designation

Minor Modification Qad

Is there an impact to existing students?

Yes

Impact on Existing Students

Current Ph D students are required to complete a minimum of four courses to fulfill the coursework requirements of the Ph D programs. Additionally, the course HLTH 719 Advanced Research Methods in Health Data Science has been replaced with HLTH 717M Advanced Artificial Intelligence in Health I and HLTH 718M Natural Language Processing Algorithm and Application in Health. These changes will not impact this requirement for students currently registered in the program.

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

1) Updating the course requirements text in the GSAC. We are updating the total number of courses to meet degree requirements in the text of the GSAC to provide greater clarity for our students. We have an interdisciplinary faculty and students take many different pathways through their graduate studies prior to beginning their Ph D in our program. We have also found that monitoring how many courses students took prior to beginning our Ph D program has not been a significant indicator of student success in the program.

2) Replacing HLTH 719 with HLTH 717M and HLTH 718M. To provide students with health informatics-focused methods courses, we are updating the requirements and replacing HLTH 719 (0.50) with HLTH 717M (0.25) and HLTH 718M (0.25), which are equivalent courses that will be offered annually moving forward.

General Program/Plan Information

Faculty

Faculty of Health

Academic Unit

School of Public Health Sciences

Graduate Field of Study

Public Health Sciences

Faculty

Faculty of Health

Program/Plan Name

Doctor of Philosophy (Ph D) in Public Health Sciences

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Admit Term(s)

Fall

Delivery Mode

On-campus

Registration Option(s)

Full-time, Part-time

Graduate Research Fields

- Epidemiology and Biostatistics
- Global Health
- Health and Environment
- Health Evaluation
- Health Informatics
- Work and Health

Admissions

Admission Requirements: Minimum Requirements

- Students applying to the program should have completed a Master's degree (or its equivalent) with content related to ongoing faculty research in areas such as health, public health, health systems, gerontology, health informatics, global health, occupational health, and evaluation.
- A minimum 75% average in Master's level coursework.
- Completion of a Master's degree and evidence of prior research achievements (e.g., Master's thesis, first author peer-reviewed publication, adjudicated research report).
- Before applying to the program, students are strongly advised to establish contact with potential supervisors.
- Students may be allowed to transfer into the Ph D program directly from the School of Public Health Sciences (SPHS) Master's programs. Such students must have completed all Master's coursework requirements, have demonstrated a superior academic record, and have evidence of prior research achievements (e.g., adjudicated research report, significant documented contribution as a co-author to a peer-reviewed publication, first author peer-reviewed publication).
- Students are sometimes accepted for direct admission to the Ph D in the SPHS program if they have an Honours Bachelor of Science degree or the equivalent and have exceptional academic and research performance, including evidence of prior research achievements (e.g., adjudicated research report, significant documented contribution as a co-author to a peer-reviewed publication, first author peer-reviewed publication). Directly admitted students will be required to complete 9 (required and elective) graduate courses, graduate milestones and a doctoral thesis.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé/Curriculum vitae
- Transcript(s)
- Writing sample
 - Students must submit a copy of previous academic work, such as copies of preprints, reprints, or master's thesis, or other evidence of written scholarly work.

Admission Requirements: References

- Number of references: 3
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic](#)

Graduate Course Requirements

No Rules

Graduate Course Requirements

Proposed

Graduate Course Requirements

- The normal minimum requirement is 4 one-term (0.50 unit weight) graduate courses (2 required and 2 electives or approved equivalents):
- Required courses (2):
 - HLTH 701 Interdisciplinary Seminar in Public Health and Health Systems
 - 1 of the following required methods courses:
 - HLTH 704 Advanced Qualitative Methods for Health Research
 - HLTH 705 Advanced Statistical Methods for Analyzing Public Health and Health Systems Data
 - HLTH 706 Advanced Epidemiological Methods
 - HLTH 717M Advanced Artificial Intelligence in Health I (0.25) and HLTH 718M Natural Language Processing Algorithm and Application in Health (0.25)
- Elective courses (2):
 - 1 methods elective course at the 600-or 700-level, selected in consultation with the supervisor (may include courses outside the SPHS), or courses offered by SPHS, including additional courses from the required course list.
 - 1 additional elective, selected in consultation with the supervisor. Students without a background in public health and health systems, and focusing in research areas other than Health Informatics, should take HLTH 601 Lifespan Determinants of Health and Disease. Students focusing in Health Informatics may choose to take HLTH 611 The Health Care System or an equivalent course approved by the SPHS Graduate Officer. Students pursuing one of the program's Graduate Research Fields, should inform their supervisor(s) of their chosen field to ensure appropriate course selection.
- Plus other free electives as may be required
 - It is important to keep in mind that these are minimum requirements. Many students complete at least three courses within their area of research interest, which may require the addition of one or more extra courses to the minimum coursework requirement.
- At a minimum, students must obtain an average of 75% or higher in aggregate on the courses presented in fulfillment of the degree requirements. Grades on all courses presented to fulfill the degree requirements must be 70% or higher. A grade below 70% in any course or failing to maintain an average of 75% will necessitate a review of the student's status by the School and may result in a student being required to complete additional coursework or being required to withdraw from the program. The School reserves the right to stipulate additional coursework if it is necessary for the student's preparation.

Existing

Graduate Course Requirements

- 9 one-term graduate courses beyond the Bachelor's degree, including at least 4 courses (2 required and 2 electives) beyond the Master's degree, is the normal minimum requirement.
- Required courses (2):
 - HLTH 701 Interdisciplinary Seminar in Public Health and Health Systems
 - 1 of the following required methods courses:
 - HLTH 704 Advanced Qualitative Methods for Health Research
 - HLTH 705 Advanced Statistical Methods for Analyzing Public Health and Health Systems Data
 - HLTH 706 Advanced Epidemiological Methods
 - HLTH 719 Advanced Research Methods in Health Data Science
- Elective courses (2):
 - 1 methods elective course at the 600-or 700-level, selected in consultation with the supervisor (may include courses outside the SPHS), or courses offered by SPHS, including additional courses from the required course list.
 - 1 additional elective, selected in consultation with the supervisor. Students without a background in public health and health systems, and focusing in research areas other than Health Informatics, should take HLTH 601 Lifespan Determinants of Health and Disease. Students focusing in Health Informatics may choose to take HLTH 611 The Health Care System or an equivalent course approved by the SPHS Graduate Officer. Students pursuing one of the program's Graduate Research Fields, should inform their supervisor(s) of their chosen field to ensure appropriate course selection.
- Plus other free electives as may be required
 - It is important to keep in mind that these are minimum requirements. Many students complete at least three courses within their area of research interest, which may require the addition of one or more extra courses to the minimum coursework requirement.
- At a minimum, students must obtain an average of 75% or higher in aggregate on the courses presented in fulfillment

of the degree requirements. Grades on all courses presented to fulfill the degree requirements must be 70% or higher. A grade below 70% in any course or failing to maintain an average of 75% will necessitate a review of the student's status by the School and may result in a student being required to complete additional coursework or being required to withdraw from the program. The School reserves the right to stipulate additional coursework if it is necessary for the student's preparation.

Milestone Requirements

Ph D Comprehensive Examination

- Students are required to meet the University-level Ph D [Comprehensive Examination](#) minimum requirements, with certain noted differences that are specific to the Faculty of Health Comprehensive Examination minimum requirements:
 - Comprehensive examination purpose: Consistent with University-level minimum requirements. Note: In the Faculty of Health, the novel research topic is tested through a separate thesis proposal process.
 - Timing: Consistent with University-level minimum requirements.
 - Committee: Consistent with University-level minimum requirements with the exception that in the Faculty of Health, the composition of the comprehensive examining committee will be approved by the Associate Chair or Director, Graduate Studies for the student's Department/School, as delegated by the Associate Dean, Graduate Studies.
 - Who Chairs an examination: Consistent with University-level minimum requirements.
 - Format / Content: Consistent with University-level minimum requirements.
 - Academic integrity: Consistent with University-level minimum requirements.
- In addition to the University-level and Faculty-level Ph D Comprehensive Examination minimum requirements, students in the Ph D in Public Health Sciences program must also note the following:
 - The purpose of the comprehensive examination is to test the breadth and depth of the candidate's comprehension of the methodological and theoretical aspects of their field of study. The process is designed to enable candidates to acquire a solid grounding in their core area of public health research that will provide a foundation for undertaking dissertation research. The examination will also test the candidate's ability to critically evaluate the literature and synthesize information from sources to identify knowledge gaps and recommend solutions.
 - The comprehensive examination consists of three written questions followed by an oral examination. The written questions must be completed within eight weeks from the start date and the oral defence should be completed within four weeks of submission of the written examination.

Ph D Thesis Proposal

- Students must identify an approved topic for their Ph D thesis, write a thesis proposal describing the topic, and defend the proposal in an oral examination normally held at the midpoint of the degree. Students are expected to identify a Ph D thesis advisory committee in advance of their thesis proposal examination. This committee consists of at least three members, with the supervisor and at least one other committee member being faculty from within the School of Public Health Sciences. The proposal will be defended in an oral examination before the thesis advisory committee.

Ph D Thesis

- For the Ph D thesis, the research described in the thesis proposal will be undertaken and defended in an oral examination. The research will be conducted under the supervision of the student's supervisor and the thesis advisory committee. Upon completion of the thesis, the final document will be defended orally before an Examination Committee.
- Students may wish to pursue one of the following Graduate Research Fields:
 - Epidemiology and Biostatistics
 - Global Health
 - Health and Environment
 - Health Evaluation
 - Health Informatics
 - Work and Health
- A Graduate Research Field is a University credential that is recognized on the student's transcript and is intended to reflect that a student has successfully completed research concentrated in the area of the Graduate Research Field. The School, represented by the student's supervisor and examining committee, must assess whether a student's completed research warrants the field designation at the time of degree completion. To obtain the Graduate Research Field designation, a student must also complete the requirements associated with the Ph D degree.
- Students who have completed the MSc in Public Health Sciences program and obtained a Graduate Research Field can obtain the same or another Graduate Research Field as part of their Ph D program.

Notes

- [School of Public Health Sciences website](#)
- [Doctor of Philosophy \(Ph D\) in Public Health Sciences future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Health

Dependencies

Prerequisites

- HLTH 741 - Advanced Practicum [View Program](#)
- HLTH 641 - Practicum [View Program](#)
- HLTH 603 - Health Systems and Policy [View Program](#)
- HLTH 606B - Principles of Epidemiology for Public Health [View Program](#)
- HLTH 604 - Public Health and the Environment [View Program](#)
- HLTH 635 - Public Health, Environment and Planning [View Program](#)
- HLTH 632 - Health Economics and Public Health [View Program](#)
- HLTH 640 - Professional Experience Practicum [View Program](#)
- HLTH 614 - Foundations of Program Evaluation [View Program](#)
- HLTH 637 - Public Health Informatics [View Program](#)
- HLTH 609 - Management and Administration of Public Health Services [View Program](#)
- HLTH 624 - Environmental Toxicology in Public Health [View Program](#)
- HLTH 608 - Health and Risk Communication in Public Health [View Program](#)
- HLTH 638 - Selected Topics in Public Health [View Program](#)
- HLTH 605B - Quantitative Methods and Analysis [View Program](#)
- HLTH 607 - Social, Cultural and Behavioural Aspects of Public Health I [View Program](#)
- HLTH 634 - Environmental Epidemiology for Public Health [View Program](#)
- HLTH 663 - Human Development and Health [View Program](#)
- HLTH 662 - Global Health [View Program](#)
- HLTH 661 - Geographic Information Systems and Public Health [View Program](#)
- HLTH 616 - Decision Making and Systems Thinking in Health Informatics [View Program](#)

- HLTH 615 - Requirements Specification and Analysis in Health Systems [View Program](#)
- HLTH 653 - Evaluation Practice and Management [View Program](#)
- HLTH 655 - Health Measurement and Survey Methods [View Program](#)
- HLTH 652 - Qualitative Methods and Analysis [View Program](#)
- HLTH 656 - Quantitative Methods and Analysis for Program [View Program](#)
- HLTH 642 - Interdisciplinary Perspectives on Aging [View Program](#)
- HLTH 629 - Information Visualization [View Program](#)
- HLTH 630 - Advanced Geriatric Medicine and Healthcare [View Program](#)
- HLTH 627 - Advanced Dementia Care [View Program](#)
- HLTH 626 - Analysis and Management of Health Information in Aging Populations [View Program](#)
- HLTH 633 - Digital Health [View Program](#)
- HLTH 618 - Research Tools for Public Health Practice [View Program](#)
- HLTH 639 - Experiential Learning in Evaluation [View Program](#)
- REC 750 - Fundamentals of Aging, Health and Well-being [View Program](#)
- KIN 750 - Fundamentals of Aging, Health and Well-being [View Program](#)
- HLTH 750 - Fundamentals of Aging, Health and Well-being [View Program](#)
- HLTH 623 - Risk and Exposure Assessment in Public Health [View Program](#)
- HLTH 651 - Theory and Applications in Program Evaluation [View Program](#)
- HLTH 617 - Population Intervention for Disease Prevention and Health Promotion [View Program](#)
- HLTH 631 - Public Health Surveillance [View Program](#)
- HLTH 654 - Systems Thinking and Analysis in Health Program Planning and Evaluation [View Program](#)
- HLTH 613 - Information Technology for the Health Professional [View Program](#)

PhD in Public Health Sciences-Aging, Health & Well-Being - Doctor of Philosophy (PhD) in Public Health Sciences - Aging, Health and Well-Being

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-12-12

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?

Yes

Impact on Existing Students

Current Ph D students are required to complete a minimum of four courses to fulfill the coursework requirements of the Ph D programs. Additionally, the course HLTH 719 Advanced Research Methods in Health Data Science has been replaced with HLTH 717M Advanced Artificial Intelligence in Health I and HLTH 718M Natural Language Processing Algorithm and Application in Health. These changes will not impact this requirement for students currently registered in the program.

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

1) Updating the course requirements text in the GSAC. We are updating the total number of courses to meet degree requirements in the text of the GSAC to provide greater clarity for our students. We have an interdisciplinary faculty and students take many different pathways through their graduate studies prior to beginning their Ph D in our program. We have also found that monitoring how many courses students took prior to beginning our Ph D program has not been a significant indicator of student success in the program.

2) Replacing HLTH 719 with HLTH 717M and HLTH 718M. To provide students with health informatics-focused methods courses, we are updating the requirements and replacing HLTH 719 (0.50) with HLTH 717M (0.25) and HLTH 718M (0.25), which are equivalent courses that will be offered annually moving forward.

General Program/Plan Information

Faculty

Faculty of Health

Academic Unit

School of Public Health Sciences

Graduate Field of Study

Public Health Sciences

Faculty

Faculty of Health

Program/Plan Name

Doctor of Philosophy (Ph D) in Public Health Sciences - Aging, Health and Well-Being

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Program Types

Collaborative

Admit Term(s)

Fall

Delivery Mode

On-campus

Registration Option(s)

Full-time, Part-time

Admissions

Admission Requirements: Minimum Requirements

- Normally a Master's degree with a minimum 75% average in a field that is relevant to the area of aging, health and well-being (normally kinesiology, recreation and leisure studies or health studies and gerontology, but other degrees in life and social sciences could be suitable as well).
- Submit a letter indicating reasons for pursuing graduate studies and a written statement outlining research interests.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé/Curriculum vitae
- Transcript(s)
- Writing sample
 - Students must submit a copy of previous academic work, such as copies of preprints, reprints, or master's thesis, or other evidence of written scholarly work.

Admission Requirements: References

- Number of references: 3
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Graduate Course Requirements

No Rules

Graduate Course Requirements

Proposed

Graduate Course Requirements

- Students must complete the following courses:
 - HLTH 750 Fundamentals of Aging, Health and Well-Being
 - 1 graduate level statistics/research methods course (1 of HLTH 704, HLTH 705, HLTH 706, or HLTH 717M (0.25) and HLTH 718M (0.25)) with assignments and major projects focused on aging
 - HLTH 701 Interdisciplinary Seminar in Public Health and Health Systems with assignments and major projects focused on aging
 - 1 additional elective methods course related to aging, health, and well-being
- Students must also complete the following CR/NCR graduate seminar courses:
 - HLTH 751A/KIN 751A/REC 751A Aging, Health and Well-Being Research Seminar 1 (0.0 units)
 - HLTH 751B/KIN 751B/REC 751B Aging, Health and Well-Being Research Seminar 2 (0.0 units)
- At a minimum, students must obtain an average of 75% or higher in aggregate on the courses presented in fulfilment of the degree requirements. Grades on all courses presented to fulfill the degree requirements must be 70% or higher. A grade below 70% in any course or failing to maintain an average of 75% will necessitate a review of the student's status by the School and may result in a student being required to complete additional coursework or being required to withdraw from the program. The School reserves the right to stipulate additional coursework if it is necessary for the student's preparation.

Existing

Graduate Course Requirements

- Students must fulfill the minimum requirements of the Ph D program in the School of Public Health Sciences (SPHS) and will normally complete a minimum of 9 one-term (0.50 unit) graduate courses beyond an Honours Bachelor degree, including at least 4 courses beyond the Master's degree. Course requirements are as follows:
 - HLTH 750 Fundamentals of Aging, Health and Well-Being
 - 1 graduate level statistics/research methods course (1 of HLTH 704, HLTH 705, HLTH 706, or HLTH 719) with

- assignments and major projects focused on aging
- HLTH 701 Interdisciplinary Seminar in Public Health and Health Systems with assignments and major projects focused on aging
- 1 additional elective methods course related to aging, health, and well-being
- Students must also complete the following CR/NCR graduate seminar courses:
 - HLTH 751A/KIN 751A/REC 751A Aging, Health and Well-Being Research Seminar 1 (0.0 units)
 - HLTH 751B/KIN 751B/REC 751B Aging, Health and Well-Being Research Seminar 2 (0.0 units)
- At a minimum, students must obtain an average of 75% or higher in aggregate on the courses presented in fulfilment of the degree requirements. Grades on all courses presented to fulfill the degree requirements must be 70% or higher. A grade below 70% in any course or failing to maintain an average of 75% will necessitate a review of the student's status by the School and may result in a student being required to complete additional coursework or being required to withdraw from the program. The School reserves the right to stipulate additional coursework if it is necessary for the student's preparation.

Milestone Requirements

Ph D Comprehensive Examination

- Students are required to meet the University-level Ph D [Comprehensive Examination](#) minimum requirements, with certain noted differences that are specific to the Faculty of Health Comprehensive Examination minimum requirements:
 - Comprehensive examination purpose: Consistent with University-level minimum requirements. Note: In the Faculty of Health, the novel research topic is tested through a separate thesis proposal process.
 - Timing: Consistent with University-level minimum requirements.
 - Committee: Consistent with University-level minimum requirements with the exception that in the Faculty of Health, the composition of the comprehensive examining committee will be approved by the Associate Chair or Director, Graduate Studies for the student's Department/School, as delegated by the Associate Dean, Graduate Studies.
 - Who Chairs an examination: Consistent with University-level minimum requirements.
 - Format / Content: Consistent with University-level minimum requirements.
 - Academic integrity: Consistent with University-level minimum requirements.
- In addition to the University-level and Faculty-level Ph D Comprehensive Examination minimum requirements, students in the Ph D in Public Health Sciences - Aging, Health and Well-Being program must also note the following:
 - The purpose of the comprehensive examination is to test the breadth and depth of the candidate's comprehension of the methodological and theoretical aspects of their field of study. The process is designed to enable candidates to acquire a solid grounding in their core area of public health research that will provide a foundation for undertaking dissertation research. The examination will also test the candidate's ability to critically evaluate the literature and synthesize information from sources to identify knowledge gaps and recommend solutions.
 - The comprehensive examination consists of three written questions followed by an oral examination. The written questions must be completed within eight weeks from the start date and the oral defence should be completed within four weeks of submission of the written examination.

Ph D Thesis Proposal

- Students must identify an approved topic for their Ph D thesis, write a thesis proposal describing the topic, and defend the proposal in an oral examination normally held at the midpoint of the degree. Students are expected to identify a Ph D thesis advisory committee in advance of their thesis proposal examination. This committee consists of at least three members, with the supervisor and at least one other committee member being faculty from within the School of Public Health Sciences. The proposal will be defended in an oral examination before the thesis advisory committee.

Ph D Thesis

- For the Ph D thesis, the research described in the thesis proposal will be undertaken and defended in an oral examination. The research will be conducted under the supervision of the student's supervisor and the thesis advisory committee. Upon completion of the thesis, the final document will be defended orally before an Examination Committee.

Other requirements

- Student evaluation: a review of each student's progress takes place during the month of May each year. Students are evaluated on several criteria, including performance in courses, progress with regard to the comprehensive examination and thesis work and, where appropriate, reports submitted by the students regarding their research and teaching assistantship activity.

Notes

- [School of Public Health Sciences website](#)
- [Doctor of Philosophy \(Ph D\) in Public Health Sciences - Aging, Health and Well-Being future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Health

Dependencies

Prerequisites

- HLTH 741 - Advanced Practicum [View Program](#)
- HLTH 641 - Practicum [View Program](#)
- HLTH 603 - Health Systems and Policy [View Program](#)
- HLTH 606B - Principles of Epidemiology for Public Health [View Program](#)
- HLTH 604 - Public Health and the Environment [View Program](#)
- HLTH 635 - Public Health, Environment and Planning [View Program](#)
- HLTH 632 - Health Economics and Public Health [View Program](#)
- HLTH 640 - Professional Experience Practicum [View Program](#)
- HLTH 614 - Foundations of Program Evaluation [View Program](#)
- HLTH 637 - Public Health Informatics [View Program](#)
- HLTH 609 - Management and Administration of Public Health Services [View Program](#)
- HLTH 624 - Environmental Toxicology in Public Health [View Program](#)
- HLTH 608 - Health and Risk Communication in Public Health [View Program](#)
- HLTH 638 - Selected Topics in Public Health [View Program](#)
- HLTH 605B - Quantitative Methods and Analysis [View Program](#)
- HLTH 607 - Social, Cultural and Behavioural Aspects of Public Health I [View Program](#)
- HLTH 634 - Environmental Epidemiology for Public Health [View Program](#)
- HLTH 663 - Human Development and Health [View Program](#)
- HLTH 662 - Global Health [View Program](#)

- HLTH 661 - Geographic Information Systems and Public Health [View Program](#)
- HLTH 616 - Decision Making and Systems Thinking in Health Informatics [View Program](#)
- HLTH 615 - Requirements Specification and Analysis in Health Systems [View Program](#)
- HLTH 653 - Evaluation Practice and Management [View Program](#)
- HLTH 655 - Health Measurement and Survey Methods [View Program](#)
- HLTH 652 - Qualitative Methods and Analysis [View Program](#)
- HLTH 656 - Quantitative Methods and Analysis for Program [View Program](#)
- HLTH 642 - Interdisciplinary Perspectives on Aging [View Program](#)
- HLTH 629 - Information Visualization [View Program](#)
- HLTH 630 - Advanced Geriatric Medicine and Healthcare [View Program](#)
- HLTH 627 - Advanced Dementia Care [View Program](#)
- HLTH 626 - Analysis and Management of Health Information in Aging Populations [View Program](#)
- HLTH 633 - Digital Health [View Program](#)
- HLTH 618 - Research Tools for Public Health Practice [View Program](#)
- HLTH 639 - Experiential Learning in Evaluation [View Program](#)
- REC 750 - Fundamentals of Aging, Health and Well-being [View Program](#)
- KIN 750 - Fundamentals of Aging, Health and Well-being [View Program](#)
- HLTH 750 - Fundamentals of Aging, Health and Well-being [View Program](#)
- HLTH 751A - Aging, Health and Well-Being Research Seminar 1 [View Program](#)
- KIN 751A - Aging, Health and Well-Being Research Seminar 1 [View Program](#)
- REC 751A - Aging, Health and Well-Being Research Seminar 1 [View Program](#)
- HLTH 751B - Aging, Health and Well-Being Research Seminar 2 [View Program](#)
- REC 751B - Aging, Health and Well-Being Research Seminar 2 [View Program](#)
- KIN 751B - Aging, Health and Well-Being Research Seminar 2 [View Program](#)
- HLTH 623 - Risk and Exposure Assessment in Public Health [View Program](#)
- HLTH 651 - Theory and Applications in Program Evaluation [View Program](#)
- HLTH 617 - Population Intervention for Disease Prevention and Health Promotion [View Program](#)
- HLTH 631 - Public Health Surveillance [View Program](#)
- HLTH 654 - Systems Thinking and Analysis in Health Program Planning and Evaluation [View Program](#)
- HLTH 613 - Information Technology for the Health Professional [View Program](#)

PhD in Public Health Sciences-Water - Doctor of Philosophy (PhD) in Public Health Sciences - Water

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year

Spring 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-12-12

Quality Assurance Designation

Minor Modification Qad

Is there an impact to existing students?

Yes

Impact on Existing Students

Current Ph D students are required to complete a minimum of four courses to fulfill the coursework requirements of the Ph D programs. Additionally, the course HLTH 719 Advanced Research Methods in Health Data Science has been replaced with HLTH 717M Advanced Artificial Intelligence in Health I and HLTH 718M Natural Language Processing Algorithm and Application in Health. These changes will not impact this requirement for students currently registered in the program.

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

1) Updating the course requirements text in the GSAC. We are updating the total number of courses to meet degree requirements in the text of the GSAC to provide greater clarity for our students. We have an interdisciplinary faculty and students take many different pathways through their graduate studies prior to beginning their Ph D in our program. We have also found that monitoring how many courses students took prior to beginning our Ph D program has not been a significant indicator of student success in the program.

2) Replacing HLTH 719 with HLTH 717M and HLTH 718M. To provide students with health informatics-focused methods courses, we are updating the requirements and replacing HLTH 719 (0.50) with HLTH 717M (0.25) and HLTH 718M (0.25), which are equivalent courses that will be offered annually moving forward.

General Program/Plan Information

Faculty

Faculty of Health

Academic Unit

School of Public Health Sciences

Graduate Field of Study

Faculty

Program/Plan Name

Doctor of Philosophy (Ph D) in Public Health Sciences - Water

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Program Types

Collaborative

Admit Term(s)

Fall

Delivery Mode

On-campus

Registration Option(s)

Full-time, Part-time

Admissions

Admission Requirements: Minimum Requirements

- Students applying to the program are required to complete a Master of Science (MSc) degree (or its equivalent) with content related to health, public health, health systems, or areas relevant to the impacts of water on human health with a minimum 75% average in master's level coursework.
- Completion of a master's thesis.
- Submit a letter indicating reasons for pursuing graduate studies and a written statement outlining research interests.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé/Curriculum vitae
- Transcript(s)
- Writing sample
 - Students must submit a copy of previous academic work, such as copies of preprints, reprints, or master's thesis, or other evidence of written scholarly work.

Admission Requirements: References

- Number of references: 3
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Graduate Course Requirements

No Rules

Graduate Course Requirements

Proposed

Graduate Course Requirements

- Students must complete the following 4 required courses:
- Required courses:
 - HLTH 701 Interdisciplinary Seminar in Public Health and Health Systems
 - WATER 601 Integrated Water Management
 - WATER 602 Integrated Water Management Project
- 1 of the following required methods courses:
 - HLTH 704 Advanced Qualitative Methods for Health Research
 - HLTH 705 Advanced Statistical Methods for Analyzing Public Health and Health Systems Data
 - HLTH 706 Advanced Epidemiological Methods
 - HLTH 717M Advanced Artificial Intelligence in Health I (0.25) and HLTH 718M Natural Language Processing Algorithm and Application in Health (0.25)
- This degree is offered through the Collaborative Water Program. This program, jointly offered by a range of departments across several academic faculties, promotes the development of interdisciplinary perspectives on water. Collaborative Water Program students complete their specialist training in their respective home departments, while working with colleagues from a variety of other departments in core interdisciplinary courses (WATER 601 and WATER 602).

- Students who have already completed WATER 601 and WATER 602 as part of their Masters Water degree, must complete the following course requirement:
 - 1 graduate level water course from outside the student's home Faculty agreed to by the student's Supervisor and the Collaborative Water Program Director.
- At a minimum, students must obtain an average of 75% or higher in aggregate on the courses presented in fulfillment of the degree requirements. Grades on all courses presented to fulfill the degree requirements must be 70% or higher. A grade below 70% in any course or failing to maintain an average of 75% will necessitate a review of the student's status by the School and may result in a student being required to complete additional coursework or being required to withdraw from the program. The School reserves the right to stipulate additional coursework if it is necessary for the student's preparation.

Existing

Graduate Course Requirements

- 9 one-term graduate courses beyond the Bachelor's degree, including at least 4 courses beyond the Master's degree, is the normal minimum requirement.
- Required courses (4)
 - HLTH 701 Interdisciplinary Seminar in Public Health and Health Systems
 - WATER 601 Integrated Water Management
 - WATER 602 Integrated Water Management Project
- 1 of the following required methods courses:
 - HLTH 704 Advanced Qualitative Methods for Health Research
 - HLTH 705 Advanced Statistical Methods for Analyzing Public Health and Health Systems Data
 - HLTH 706 Advanced Epidemiological Methods
 - HLTH 719 Advanced Research Methods in Health Data Science
- This degree is offered through the Collaborative Water Program. This program, jointly offered by a range of departments across several academic faculties, promotes the development of interdisciplinary perspectives on water. Collaborative Water Program students complete their specialist training in their respective home departments, while working with colleagues from a variety of other departments in core interdisciplinary courses (WATER 601 and WATER 602).
- Students who have already completed WATER 601 and WATER 602 as part of their Masters Water degree, must complete the following course requirement:
 - 1 graduate level water course from outside the student's home Faculty agreed to by the student's Supervisor and the Collaborative Water Program Director.
- At a minimum, students must obtain an average of 75% or higher in aggregate on the courses presented in fulfillment of the degree requirements. Grades on all courses presented to fulfill the degree requirements must be 70% or higher. A grade below 70% in any course or failing to maintain an average of 75% will necessitate a review of the student's status by the School and may result in a student being required to complete additional coursework or being required to withdraw from the program. The School reserves the right to stipulate additional coursework if it is necessary for the student's preparation.

Milestone Requirements

Collaborative Research Seminar I

- Students are required to present a seminar on their thesis or major paper research proposal and, if appropriate, early stage results to current and past Water students and Water Institute faculty members. Seminars will normally occur following the completion of WATER 601 and WATER 602. Seminars will provide the opportunity for students to discuss how learnings from Water courses were applied in, or influenced, research proposals or research work in the student's home department. Seminars will normally be poster presentations at Water Institute organized events. The seminar is not an oral examination of the thesis or paper; rather, its purpose is to develop the student's ability to communicate their research in an organized and informative manner.

Collaborative Research Seminar II

- Students who have completed the Collaborative Research Seminar 1 as part of their Masters Water degree, must complete the Collaborative Research Seminar 2.
- Students are required to present a seminar on their Ph D thesis proposal to current and past water students and Water Institute faculty members. Seminars will normally occur following the completion of required courses and the comprehensive exam. Seminars should present how learnings from the Collaborative Water Program were applied in, or influenced, thesis proposals. Seminars will normally be poster presentations or talks at Water Institute organized events. The seminar is not an oral examination of the thesis proposal; rather, its purpose is to develop the student's ability to communicate their research in an organized and informative manner.

Collaborative Academic Contribution

- Students who have completed the Collaborative Water Program Research Seminar 1 as part of their Masters Water degree, must complete the Collaborative Academic Contribution milestone.
- Students are required to make an academic contribution to the Collaborative Water Program. The proposed contribution will be documented by the student and approved by the student's Supervisor and the Collaborative Water Program Director. Potential contributions may include, but not be limited to:
 - Development of new or improved curricula or course content;
 - Delivery of a lecture(s);
 - Preparation of a publication;
 - Preparation of a case study;
 - Mentorship of a group of students.

Ph D Comprehensive Examination

- Students are required to meet the University-level Ph D [Comprehensive Examination](#) minimum requirements, with certain noted differences that are specific to the Faculty of Health Comprehensive Examination minimum requirements:
 - Comprehensive examination purpose: Consistent with University-level minimum requirements. Note: In the Faculty of Health, the novel research topic is tested through a separate thesis proposal process.
 - Timing: Consistent with University-level minimum requirements.
 - Committee: Consistent with University-level minimum requirements with the exception that in the Faculty of Health, the composition of the comprehensive examining committee will be approved by the Associate Chair or Director, Graduate Studies for the student's Department/School, as delegated by the Associate Dean, Graduate Studies.
 - Who Chairs an examination: Consistent with University-level minimum requirements.
 - Format / Content: Consistent with University-level minimum requirements.
 - Academic integrity: Consistent with University-level minimum requirements.
- In addition to the University-level and Faculty-level Ph D Comprehensive Examination minimum requirements, students in the Ph D in Public Health Sciences - Water program must also note the following:
 - The purpose of the comprehensive examination is to test the breadth and depth of the candidate's comprehension of the methodological and theoretical aspects of their field of study. The process is designed to enable candidates to acquire a solid grounding in their core area of public health research that will provide a foundation for undertaking dissertation research. The examination will also test the candidate's ability to critically evaluate the literature and synthesize information from sources to identify knowledge gaps and recommend solutions.
 - The comprehensive examination consists of three written questions followed by an oral examination. The written questions must be completed within eight weeks from the start date and the oral defence should be completed within four weeks of submission of the written examination.

Ph D Thesis Proposal

- Students must identify an approved topic for their Ph D thesis, write a thesis proposal describing the topic, and defend the proposal in an oral examination normally held at the midpoint of the degree. Students are expected to identify a Ph D thesis advisory committee in advance of their thesis proposal examination. This committee consists of at least three members, with the supervisor and at least one other committee member being faculty from within the School of Public Health Sciences. The proposal will be defended in an oral examination before the thesis advisory committee.

Ph D Thesis

- For the Ph D thesis, the research described in the thesis proposal will be undertaken and defended in an oral examination. The research will be conducted under the supervision of the student's supervisor and the thesis advisory committee. Upon completion of the thesis, the final document will be defended orally before an Examination Committee.

Notes

- [School of Public Health Sciences website](#)
- [Doctor of Philosophy \(Ph D\) in Public Health Sciences - Water future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Health

Dependencies

Prerequisites

• HLTH 741 - Advanced Practicum	View Program
• HLTH 641 - Practicum	View Program
• HLTH 603 - Health Systems and Policy	View Program
• HLTH 606B - Principles of Epidemiology for Public Health	View Program
• HLTH 604 - Public Health and the Environment	View Program
• HLTH 635 - Public Health, Environment and Planning	View Program
• HLTH 632 - Health Economics and Public Health	View Program
• HLTH 640 - Professional Experience Practicum	View Program
• HLTH 614 - Foundations of Program Evaluation	View Program
• HLTH 637 - Public Health Informatics	View Program
• HLTH 609 - Management and Administration of Public Health Services	View Program
• HLTH 624 - Environmental Toxicology in Public Health	View Program
• HLTH 608 - Health and Risk Communication in Public Health	View Program
• HLTH 638 - Selected Topics in Public Health	View Program
• HLTH 605B - Quantitative Methods and Analysis	View Program
• HLTH 607 - Social, Cultural and Behavioural Aspects of Public Health I	View Program
• HLTH 634 - Environmental Epidemiology for Public Health	View Program
• HLTH 663 - Human Development and Health	View Program
• HLTH 662 - Global Health	View Program
• HLTH 661 - Geographic Information Systems and Public Health	View Program
• HLTH 616 - Decision Making and Systems Thinking in Health Informatics	View Program
• HLTH 615 - Requirements Specification and Analysis in Health Systems	View Program
• WATER 601 - Integrated Water Management	View Program
• HLTH 653 - Evaluation Practice and Management	View Program
• HLTH 655 - Health Measurement and Survey Methods	View Program
• HLTH 652 - Qualitative Methods and Analysis	View Program
• HLTH 656 - Quantitative Methods and Analysis for Program	View Program
• HLTH 642 - Interdisciplinary Perspectives on Aging	View Program
• HLTH 629 - Information Visualization	View Program
• HLTH 630 - Advanced Geriatric Medicine and Healthcare	View Program
• HLTH 627 - Advanced Dementia Care	View Program
• HLTH 626 - Analysis and Management of Health Information in Aging Populations	View Program
• HLTH 633 - Digital Health	View Program
• HLTH 618 - Research Tools for Public Health Practice	View Program
• HLTH 639 - Experiential Learning in Evaluation	View Program
• REC 750 - Fundamentals of Aging, Health and Well-being	View Program
• KIN 750 - Fundamentals of Aging, Health and Well-being	View Program
• HLTH 750 - Fundamentals of Aging, Health and Well-being	View Program
• HLTH 623 - Risk and Exposure Assessment in Public Health	View Program
• HLTH 651 - Theory and Applications in Program Evaluation	View Program
• HLTH 617 - Population Intervention for Disease Prevention and Health Promotion	View Program

- HLTH 631 - Public Health Surveillance
- HLTH 654 - Systems Thinking and Analysis in Health Program Planning and Evaluation
- HLTH 613 - Information Technology for the Health Professional

[View Program](#)

[View Program](#)

[View Program](#)

Date 2026/04/08

Show Empty Fields

Meeting Information

Agenda Page Title

SGC - Consent Agenda - Faculty of Mathematics - April 16, 2026

Career Level
Graduate,

Faculty/Unit
Mathematics

Date
2026-04-16

Summary

Course Proposals:

1) Pure Mathematics:

2 course revisions

Program Proposals:

1) Pure Mathematics:

1.1) MMath in Pure Mathematics

1.2) MMath in Pure Mathematics - Quantum Information

a) Revising the GSAC to reflect that the Thesis study option is no longer transfer entry only.

Attachment(s)

Course Proposals

Courses: Retire

No proposals have been added.

Courses: New

No proposals have been added.

Courses: Changes

Code	Title	Type	Workflow Step
PMATH 810	Banach Algebras and Operator Theory	Courses	SGC, Senate Graduate Council (SGC)
PMATH 868	Connections and Riemannian Geometry	Courses	SGC, Senate Graduate Council (SGC)

Programs & Plans Proposals

Programs & Plans: Retire
No proposals have been added.

Programs & Plans: Major Modifications
No proposals have been added.

Programs & Plans: Minor Modifications

Code	Title	Type	Workflow Step
MMath in Pure Mathematics	Master of Mathematics (MMath) in Pure Mathematics	Programs	SGC, Senate Graduate Council (SGC)
MMath in Pure Mathematics-Quantum Information	Master of Mathematics (MMath) in Pure Mathematics - Quantum Information	Programs	SGC, Senate Graduate Council (SGC)

Regulations Proposals

Regulations: Retire
No proposals have been added.

Regulations: New
No proposals have been added.

Regulations: Changes
No proposals have been added.

PMATH 810 - Banach Algebras and Operator Theory

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<div style="background-color: #FFD700; padding: 2px;">Proposed</div> <div style="background-color: #FFD700; padding: 2px;">Effective Term and Year Spring 2026</div> <div style="background-color: #ADD8E6; padding: 2px;">Existing</div> <div style="background-color: #ADD8E6; padding: 2px;">Effective Term and Year Fall 2023</div>	11875	1

Proposal Details

Proposal Type Change	Academic Unit Approval 2026-01-19
--------------------------------	---

Unit Weight/Number Changes

No

Rationale for Change

Removing the PMATH 753 Functional Analysis prerequisite. The current prerequisite condition is overly restrictive. For instance, it is not (formally) satisfied if students have taken a version of the prerequisite at another university (common for graduate students) or as a 4xx level class at UW. This change better represent the required prerequisite content.

Course Information**Faculty**

Faculty of Mathematics

Academic Unit

Department of Pure Mathematics

Subject Code

PMATH

Number

810

Title

Banach Algebras and Operator Theory

Abbreviated Title

Proposed

Abbreviated Title

Banach Algs & Operator Theory

Existing

Abbreviated Title

Banach Algs and Operator Th

Description

Proposed

Description

Banach algebras, functional calculus, Gelfand transform, Jacobson radical, Banach space and Hilbert space operators, Fredholm alternative, spectral theorem for compact normal operators, ideals in C^* -algebras, linear functionals and states, Gelfand-Naimark-Segal (GNS) construction, von Neumann algebras, strong/weak operator topologies, Double Commutant theorem, Kaplansky's density theorem, spectral theorem for normal operators. Students are expected to have background in functional analysis covering the topics of PMATH 753.

Existing

Description

Banach algebras, functional calculus, Gelfand transform, Jacobson radical, Banach space and Hilbert space operators, Fredholm alternative, spectral theorem for compact normal operators, ideals in C^* -algebras, linear functionals and states, Gelfand-Naimark-Segal (GNS) construction, von Neumann algebras, strong/weak operator topologies, Double Commutant theorem, Kaplansky's density theorem, spectral theorem for normal operators.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. No Rules

- ~~PMATH753 – Functional Analysis (0.50)~~

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Mathematics

Dependencies

There are no dependencies

PMATH 868 - Connections and Riemannian Geometry

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Effective Date & Career

Career	Effective Term and Year	Quest Course ID	Offering Number
Graduate	<p>Proposed</p> <p>Effective Term and Year Spring 2026</p> <p>Existing</p> <p>Effective Term and Year Fall 2023</p>	16231	1

Proposal Details

Proposal Type
Change

Academic Unit Approval
2026-01-19

Unit Weight/Number Changes
No

Rationale for Change

Removing the PMATH 665 Smooth Manifolds prerequisite. The current prerequisite condition is overly restrictive. For instance, it is not (formally) satisfied if students have taken a version of the prerequisite at another university (common for graduate students) or as a 4xx level class at UW. This change better represent the required prerequisite content.

Course Information

Faculty

Faculty of Mathematics

Academic Unit

Department of Pure Mathematics

Subject Code

PMATH

Number

868

Title

Connections and Riemannian Geometry

Abbreviated Title

Connections & Riemannian Geom

Description**Proposed****Description**

Review of smooth manifolds. Vector bundles. Connections and curvature, holonomy, characteristic classes. Connections on tangent bundle: torsion, geodesics, exponential map. Riemannian geometry: Levi-Civita connection, Riemannian geodesics, Hopf-Rinow Theorem. Additional topics if time permits. Students are expected to have background in smooth manifolds covering the topics of PMATH 665.

Existing**Description**

Review of smooth manifolds. Vector bundles. Connections and curvature, holonomy, characteristic classes. Connections on tangent bundle: torsion, geodesics, exponential map. Riemannian geometry: Levi-Civita connection, Riemannian geodesics, Hopf-Rinow Theorem. Additional topics if time permits.

Units

0.50

Exceptions to Fees or Academic Progress Units

No

Components

Lecture

Primary Component

Lecture

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?

No

Repeatable Courses

Can this course be repeated for credit?

No

Enrolment Rules

Consent to Add

No consent required

Consent to Drop

No consent required

Prerequisites

1. No Rules

- ~~PMATH665 – Smooth Manifolds (0.50)~~

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Mathematics

Dependencies

There are no dependencies

MMath in Pure Mathematics - Master of Mathematics (MMath) in Pure Mathematics

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2026-01-19

Quality Assurance Designation
Minor Modification Qad

Is there an impact to existing students?
No

Is the credential name changing?
No

Graduate Co-operative Requirements
Not Applicable

Change to Learning Outcomes
No

Rationale and Background for Change(s)

Revising the GSAC to reflect that the Thesis study option is no longer transfer entry only. We believe this change to admissions will attract higher quality students.

General Program/Plan Information

Faculty

Faculty of Mathematics

Academic Unit

Department of Pure Mathematics

Graduate Field of Study

Pure Mathematics

Faculty

Faculty of Mathematics

Program/Plan Name

Master of Mathematics (MMath) in Pure Mathematics

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Thesis / Master's Research Paper

Admit Term(s)

Fall, Winter

Delivery Mode

On-campus

Length of Program

- The program is designed to be completed in 3 terms (12 months). Extensions must be approved by the Department Graduate Officer.

Registration Option(s)

Full-time

Graduate Research Fields

- Algebra and Logic
- Analysis
- Geometry and Topology
- Number Theory

Admissions

Admission Requirements: Minimum Requirements

- An Honours Bachelor's degree (or equivalent) in Mathematics with at least a 78% standing.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Transcript(s)

Admission Requirements: References

- Number of references: 3
- Type of references: at least 2 academic

Requirements Information

Graduate Degree Requirements

Proposed

Graduate Degree Requirements

- Students must complete the course and milestone requirements associated with their chosen study option in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Existing

Graduate Degree Requirements

- Students must complete the course and milestone requirements associated with their chosen study option in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).
- Note: All students are admitted to the Master's Research Paper study option. Students can apply to transfer to the Thesis study option after completing at least one academic term. The transfer must be approved by the Department Graduate Officer.

Thesis Option: Course Requirements

No Rules

Thesis Option: Course Requirements

- The Thesis option requires a minimum of 4 graduate course credits with an average of at least 70% (with unit weights equal to 0.50 each). At least 2 of the courses must be PMATH graduate courses numbered in the 800's and 900's; it is strongly recommended that at least 3 courses be such. The other 2 courses can include at most 1 PMATH course numbered in the 600s and at most 1 graduate course from outside the Pure Mathematics Department. The selection of courses normally requires the approval of the student's graduate advisor. In order for a reading course to count as 1 of the 4 required courses, approval must be obtained from the Departmental Graduate Committee. A reading course consisting of work done by a student in the immediate preparation for writing a thesis would not normally be counted as 1 of the 4 required courses.

Thesis Option: Milestone Requirements

Master's Seminar

- Regular participation in a departmental seminar is required.

Master's Thesis

- The thesis must be acceptable to a committee approved by the Departmental Graduate Committee. It will consist of the student's supervisor and two other readers who will normally be faculty members at Waterloo. At least one of the two other readers must be a member of the Pure Mathematics Department. The nature and length of a Master's thesis can vary greatly. However, a typical thesis is roughly 50-100 typed pages. The thesis should be a synthesis of some research papers or monographs, and may also contain some original work. The student will be expected to give a talk on their thesis.

Master's Research Paper Option: Course Requirements

No Rules

Master's Research Paper Option: Course Requirements

- The Master's Research Paper option requires a minimum of 6 graduate course credits with an average of at least 70% (with unit weights equal to 0.50). At least 4 courses must be PMATH courses. At least 2 of the courses must be PMATH graduate courses numbered in the 800's and 900's; it is strongly recommended that at least 3 courses be such. At most 2 courses can be PMATH courses numbered in the 600s. In order for a reading course to count as 1 of the 6 required courses, approval must be obtained from the Departmental Graduate Committee. A reading course consisting of work done by a student in the immediate preparation for writing the research paper would not normally be counted as 1 of the 6 required courses. The selection of courses normally requires the approval of the student's graduate advisor.

Master's Research Paper Option: Milestone Requirements

Master's Research Paper

- The Master's Research Paper will normally be completed in the Spring term (May - August) for students who entered the program in the previous Fall term. The research paper must be approved by two readers; the Supervisor(s) and one other reader who will normally hold a Ph D and an appointment at the University of Waterloo. A typical research paper is roughly 25-30 typed pages.

Notes

- [Department of Pure Mathematics website](#)
- [Master of Mathematics \(MMath\) in Pure Mathematics future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Mathematics

Dependencies

There are no dependencies

MMath in Pure Mathematics-Quantum Information - Master of Mathematics (MMath) in Pure Mathematics - Quantum Information

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Spring 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type

Change

Academic Unit Approval

2026-01-19

Quality Assurance Designation

Minor Modification Qad

Is there an impact to existing students?

No

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Revising the GSAC to reflect that the Thesis study option is no longer transfer entry only. We believe this change to admissions will attract higher quality students.

General Program/Plan Information

Faculty

Faculty of Mathematics

Academic Unit

Department of Pure Mathematics

Graduate Field of Study

Pure Mathematics

Faculty

Faculty of Mathematics

Program/Plan Name

Master of Mathematics (MMath) in Pure Mathematics - Quantum Information

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Thesis / Master's Research Paper

Program Types

Collaborative

Admit Term(s)

Fall, Winter

Delivery Mode

On-campus

Length of Program

- The program is designed to be completed in 3 terms (12 months). Extensions must be approved by the Department Graduate Officer.

Registration Option(s)

Full-time

Admissions

Admission Requirements: Minimum Requirements

- An Honours Bachelor's degree (or equivalent) in Mathematics with at least a 78% standing.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Transcript(s)

Admission Requirements: References

- Number of references: 3
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Requirements Information

Graduate Degree Requirements

Proposed

Graduate Degree Requirements

- Students must complete the course and milestone requirements associated with their chosen study option in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Existing

Graduate Degree Requirements

- Students must complete the course and milestone requirements associated with their chosen study option in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).
- Note: All students are admitted to the Master's Research Paper study option. Students can apply to transfer to the Thesis study option after completing at least one academic term. The transfer must be approved by the Department Graduate Officer.

Thesis Option: Course Requirements

No Rules

Thesis Option: Course Requirements

- The Thesis option requires a minimum of 4 graduate course credits, including the 2 Quantum Information core courses, with an average of at least 70% (with unit weights equal to 0.50 each). At least 2 of the courses must be PMATH graduate courses numbered in the 800's and 900's, and at least 2 of the courses must be QIC graduate courses (note that cross-listed courses, such as PMATH871/QIC710, are regarded as both PMATH and QIC courses). The other 2 courses can include at most 1 PMATH course numbered in the 600s and at most 1 graduate course from outside Pure Mathematics or Quantum Information. The selection of courses normally requires the approval of the student's graduate advisor. In order for a reading course to count as 1 of the 4 required courses, approval must be obtained from the Departmental Graduate Committee. A reading course consisting of work done by a student in the immediate preparation for writing a thesis would not normally be counted as 1 of the 4 required courses.
- Quantum Information core courses:
 - QIC 710 Quantum Information Processing (equivalent to PMATH 871 Quantum Information Processing)
 - QIC 750 Quantum Information Processing Devices
- If students have credit for a course deemed equivalent to a particular core QIC course by the IQC Curriculum Committee, then that part of the core requirement may be waived, but the minimum number of required courses will remain 4.

Thesis Option: Milestone Requirements

Master's Seminar

- Regular participation in a departmental seminar is required.

Masters Thesis

- The thesis should be on a topic related to quantum information and must be acceptable to a committee approved by the Departmental Graduate Committee. It will consist of the student's supervisor and two other readers who will normally be faculty members at Waterloo. At least one of the two other readers must be a member of the Pure Mathematics Department. The nature and length of a Master's thesis can vary greatly. However, a typical thesis is roughly 50-100 typed pages. The thesis should be a synthesis of some research papers or monographs, and may also contain some original work. The student will be expected to give a talk on their thesis.

Master's Research Paper Option: Course Requirements

No Rules

Master's Research Paper Option: Course Requirements

- The Master's Research Paper option requires a minimum of 6 graduate course credits, including the 2 Quantum Information core courses, with an average of at least 70% (with unit weights equal to 0.50). At least 4 courses must be PMATH courses, and at least 3 of the courses must be QIC graduate courses (note that cross-listed courses, such as PMATH 871/QIC 710, are regarded as both PMATH and QIC courses). At least 2 of the courses must be PMATH graduate courses numbered in the 800's and 900's; it is strongly recommended that at least 3 courses be such. At most 2 courses can be PMATH courses numbered in the 600s. In order for a reading course to count as 1 of the 6 required courses, approval must be obtained from the Departmental Graduate Committee. A reading course consisting of work done by a student in the immediate preparation for writing the research paper would not normally be counted as 1 of the 6 required courses. The selection of courses normally requires the approval of the student's graduate advisor.
- Quantum Information core courses:
 - QIC 710 Quantum Information Processing (equivalent to PMATH 871 Quantum Information Processing)
 - QIC 750 Quantum Information Processing Devices
- If students have credit for a course deemed equivalent to a particular core QIC course by the IQC Curriculum Committee, then that part of the core requirement may be waived, but the minimum number of required courses will remain 6.

Master's Research Paper Option: Milestone Requirements

Master's Research Paper

- The Master's Research Paper should be on a topic related to quantum information and will normally be completed in the Spring term (May-August) for students who entered the program in the previous Fall term. The research paper must be approved by two readers; the Supervisor(s) and one other reader who will normally hold a Ph D and an appointment at the University of Waterloo. A typical research paper is roughly 25-30 typed pages.

Notes

- [Department of Pure Mathematics website](#)
- [Master of Mathematics \(MMath\) in Pure Mathematics - Quantum Information future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Mathematics

Dependencies

There are no dependencies



April 2, 2026

TO: Ashley Day, Associate University Secretary
Tony Ly, Governance Officer

FROM: Heidi Mussar, Associate Director, Graduate Financial Aid & Awards

RE: Agenda items for Senate Graduate Council – April 2026

Awards for Consent

a) WICS Graduate Student Scholarship – operating

Scholarships valued at \$3,000 will be awarded to women-identifying students registered full time in a research-based master's or doctoral program in the Cheriton School of Computer Science, wherein women are underrepresented. Interested students must submit an application form that can be found on the School's website. Selection will be based on academic achievement and a written reflection of how the applicant's experiences have informed their path in computer science and how this scholarship would contribute to their success in their graduate program at Waterloo. Selection will normally be made in the winter term by the Director of Women in Computer Science in the School of Computer Science. This scholarship is funded by contributions to Women in Computer Science.

b) Gerhild Unny Memorial Graduate Award – endowment

An award, valued at \$1,500, will be awarded annually to a full-time graduate student enrolled in any research-based master's or doctoral program in the School of Critical and Creative Humanities in the Faculty of Arts. Selection will be based on academic achievement and demonstration that their research or creative studio-based practice is informed by diverse cultural perspectives and/or explores the relationship between nature, art, and aesthetic inquiry. Interested students should apply by February 1 using the application form found on the School of Critical and Creative Humanities website. This fund is made possible by a donation from the Estate of Unny Gerhild whose life and work were shaped by a deep and enduring passion for the arts, literature, nature and cultural exchange.

Total gift = \$55,000

Awards for Information

c) Faculty of Arts Departmental Graduate Scholarship – operating

Originally established in 2015, the Faculty of Arts would like to amend the terms of reference by removing the minimum 80% requirement as part of the eligibility criteria. Instead, recipients will be selected based on academic achievement to allow for more flexibility. The updated award description will be as follows:

Established through graduate student fees, the Faculty of Arts Departmental Graduate Scholarships are available to students registered full time in a master's or doctoral program in the Faculty of Arts. Recipients will be automatically selected by their department based on academic achievement.

Memo

DATE: April 2, 2026

TO: Tony Ly, Governance Officer

FROM: Justin Wan, Interim Associate Vice-President, Graduate Studies and Postdoctoral Affairs (GSPA)
Marianne Simm, Director, GSPA

RE: Graduate Studies Academic Calendar (GSAC) updates

Items for information:

- 1) Section 9.1 Joint interdisciplinary research programs
- 2) Section 14.5 Resolution of disputes between TAs and instructors and RAs and supervisors

1) Section 9.1 Joint interdisciplinary research programs

Description and rationale for proposed changes:

This section is being updated to more precisely identify the timelines associated with students entering a joint interdisciplinary research program. Entering these types of programs may be identified at the time of admission but not later than the completion of term four for PhD students and term two for Master's students.

Proposed effective date: Term: Spring Year: 2026

Current **Graduate Studies Academic Calendar (GSAC)** page:

<https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/policy/BJNj7oJRp>

Current Calendar copy	Proposed Calendar copy
<p>9.1 Joint interdisciplinary research programs</p> <p>The University of Waterloo values interdisciplinarity and encourages research graduate students to pursue their studies through diverse disciplinary lenses. Students interested in Doctoral or research Master's study involving more than one discipline may undertake a joint research degree program provided Waterloo offers the degree level sought in both of the units involved.</p> <p>Prior to admission, a student contemplating a joint interdisciplinary research program is strongly encouraged to contact potential supervisors in both programs to assess the student's candidacy.</p> <p>Entering a joint interdisciplinary research program</p> <p>A student wishing to pursue a joint interdisciplinary research program will apply to one of the programs comprising the joint program. Subsequent to admission and enrolment, but prior to the completion of term four for PhD students and term two for Master's students, the student may begin the process of defining the joint program. This process will include:</p> <ol style="list-style-type: none"> 1. Demonstrating that the student meets the admission requirements for the second of the joint programs; 	<p>9.1 Joint interdisciplinary research programs</p> <p>The University of Waterloo values interdisciplinarity and encourages research graduate students to pursue their studies through diverse disciplinary lenses. Students interested in Doctoral or research Master's study involving more than one discipline may undertake a joint research degree program provided Waterloo offers the degree level sought in both of the units involved.</p> <p>Prior to admission, a student contemplating a joint interdisciplinary research program is strongly encouraged to contact potential supervisors in both programs to assess the student's candidacy.</p> <p>Entering a joint interdisciplinary research program</p> <p>A student wishing to pursue a joint interdisciplinary research program will apply to one of the programs comprising the joint program. <u>At the time of</u> admission and enrolment, <u>and not later than</u> the completion of term four for PhD students and term two for Master's students, the student may begin the process of defining the joint program. This process will include:</p> <ol style="list-style-type: none"> 1. Demonstrating that the student meets the admission requirements for the second of the joint programs;

2. Coordinating with the student's primary supervisor to identify a co-supervisor in the second of the joint programs;
3. Defining the student's home Faculty for academic (including appropriate degree designation e.g., MA in Planning and Civil Engineering or an MASc in Civil Engineering and Planning), financial, administrative, and record-keeping purposes;
4. Creating a custom academic program that at a minimum satisfies the less rigorous of the two program requirements in the following categories:
 - a. The total number of courses and any required courses to be completed successfully;
 - b. The milestones to be completed successfully;
 - c. The construct of the student's advisory and examining committees;
5. Establishing an expected sequencing of courses and milestones, as well as the consideration of prerequisites, as appropriate.
6. Redefining the student's expected funding with identified sources that may supersede the student's original offer of admission.

Items 2 through 6 shall be recorded in writing, and shall be approved by:

- The student; the co-supervisors;
- The Graduate Officers representing both of the Joint Programs; and
- The applicable Associate Dean(s).

Upon approval, the completed document shall be shared with the student and become part of the student's official University record.

2. Coordinating with the student's primary supervisor to identify a co-supervisor in the second of the joint programs;
3. Defining the student's home Faculty for academic (including appropriate degree designation e.g., MA in Planning and Civil Engineering or an MASc in Civil Engineering and Planning), financial, administrative, and record-keeping purposes;
4. Creating a custom academic program that at a minimum satisfies the less rigorous of the two program requirements in the following categories:
 - a. The total number of courses and any required courses to be completed successfully;
 - b. The milestones to be completed successfully;
 - c. The construct of the student's advisory and examining committees;
5. Establishing an expected sequencing of courses and milestones, as well as the consideration of prerequisites, as appropriate.
6. Redefining the student's expected funding with identified sources that may supersede the student's original offer of admission.

Items 2 through 6 shall be recorded in writing, and shall be approved by:

- The student; the co-supervisors;
- The Graduate Officers representing both of the Joint Programs; and
- The applicable Associate Dean(s).

Upon approval, the completed document shall be shared with the student and become part of the student's official University record.

2) Section 14.5 Resolution of disputes between TAs and instructors and RAs and supervisors

Description and rationale for proposed changes:

This section is being removed from the Graduate Studies Academic Calendar as it is now superseded by Policy 30 and the collective agreement between the University of Waterloo and Canadian Union of Public Employees (CUPE) Local 5524 governing the employment relationship between the University and graduate teaching assistants and graduate research assistants.

Proposed effective date: Term: Spring Year: 2026

Current **Graduate Studies Academic Calendar (GSAC)** page:

<https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/policy/Hy3ecXPC6>

Current Calendar copy	Proposed Calendar copy
<p>14.5 Resolution of disputes between TAs and instructors and RAs and supervisors</p> <p><i>*Note: the text in this section is now superseded by Policy 30 – Employment of Graduate Student Teaching Assistants. This section will be removed from a future publication of the GSAC.</i></p> <p>The relationship between a Teaching Assistant (TA) and their instructor and a Research Assistant (RA) and their supervisor is based on collegiality and mutual respect. This memo sets out the means to address disputes, misunderstandings and disagreements.</p> <p>As it is in the best interests of all parties to address concerns informally and in a timely manner, a TA/RA is encouraged to communicate with their instructor/supervisor when a question arises about a decision or action affecting them. This communication can be either in person or in writing and must be done within one month of the decision/action. If the supervisor/instructor requires it, the TA/RA shall put the communication in writing. Within 10 working days of receipt of the communication the instructor/supervisor shall respond. If the TA/RA is satisfied with the response, the matter is at an end.</p>	<p>N/A</p>

~~If a TA/RA is not satisfied with the result, they may seek a resolution by taking the issue to the department graduate officer/associate chair within 10 days of the instructor's/supervisor's response.~~

~~If a TA/RA is not satisfied with the result, they may take the matter to the Associate Vice-President, Graduate Studies and Postdoctoral Affairs, who will consult with the relevant Associate Dean, Graduate Studies within the Faculty, within 10 days of the graduate officer's/associate chair's response. The decision of the Associate Vice President, Graduate Studies and Postdoctoral Affairs is final.~~

~~The TA/RA and instructor/supervisor are entitled to be accompanied by a University of Waterloo colleague of their choosing as a support person at any meeting.~~

~~Note: Sexual harassment, discrimination and abuse of supervisory authority are covered by [Policy 33 – Ethical Behaviour](#).~~

Date 2026/04/08

Show Empty Fields

Meeting Information

Agenda Page Title

SGC - Arts - Regular Agenda - April 16, 2026

Career Level

Graduate,

Faculty/Unit

Arts

Date

2026-04-16

Summary

Program Proposals:

1) Catholic Thought (St. Jerome's University)

1.1) Master of Catholic Thought (MCT)

a) Removing the Master's Research Paper study option.

b) Adding a Thesis study option as the Program's sole option.

c) Replacing the course requirements with new courses (current courses being retired).

2) Philosophy

2.1) PhD in Applied Philosophy

2.2) PhD in Philosophy

2.3) MA in Philosophy

a) Revising the PhD and MA in Philosophy Graduate Research Fields.

3) Religious Studies

3.1) PhD in Religious Studies

a) Changing the program name from PhD in "Religious Studies" to PhD in "Religion, Culture, and Society".

b) Removing the "Religious Diversity in North America" graduate research field.

c) Updating the course requirements to include RS 740 and RS 750 as required courses and remove RS 700 and RS 710.

d) Updating text to account for the Faculty of Arts reorganization.

Attachment(s)

Course Proposals

Courses: Retire

No proposals have been added.

Courses: New

No proposals have been added.

Courses: Changes

No proposals have been added.

Programs & Plans Proposals

Programs & Plans: Retire

No proposals have been added.

Programs & Plans: Major Modifications

Code	Title	Type	Workflow Step
Master of Catholic Thought (MCT)	Master of Catholic Thought (MCT)	Programs	SGC, Senate Graduate Council (SGC)
PhD in Applied Philosophy	Doctor of Philosophy (PhD) in Applied Philosophy	Programs	SGC, Senate Graduate Council (SGC)
PhD in Philosophy	Doctor of Philosophy (PhD) in Philosophy	Programs	SGC, Senate Graduate Council (SGC)
MA in Philosophy	Master of Arts (MA) in Philosophy	Programs	SGC, Senate Graduate Council (SGC)
PhD in Religion, Culture, and Society	Doctor of Philosophy (PhD) in Religion, Culture, and Society	Programs	SGC, Senate Graduate Council (SGC)

Programs & Plans: Minor Modifications

No proposals have been added.

Regulations Proposals

Regulations: Retire

No proposals have been added.

Regulations: New

No proposals have been added.

Regulations: Changes

No proposals have been added.

Master of Catholic Thought (MCT) - Master of Catholic Thought (MCT)

[Top](#)

Effective Date and Career

Career
Graduate**Effective Term and Year**

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Proposal Details

Proposal Type

Change

Academic Unit Approval

2026-01-23

Quality Assurance Designation

Major Modification Qad

Major Modification Categories

Add/re-name a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Closure of a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Change course/program requirements

Is there an impact to existing students?

No

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Proposed changes:

- 1) Removing the Master's Research Paper study option.
- 2) Adding a Thesis study option as the Program's sole option.
- 3) Replacing the course requirements with new courses (current courses being retired). The new requirements include the following courses:
 - CT 600 Foundations of Catholic Thought
 - CT 620 The Human Person
 - CT 630 The Catholic Church in the World
 - CT 640 Catholicism and Social Justice

Rationale:

Following recommendations made in the cyclical review of the Master of Catholic Thought (MCT) program in July 2020, St. Jerome's University (SJU) engaged an educational consultant with experience in small Catholic liberal arts contexts to recommend, among other things, ways to increase enrolments in the MCT program while at the same time maintaining rigorous academic standards. This consultant visited the campus in July 2024 to conduct interviews with faculty, students, senior leaders, and partners in the Diocese of Hamilton. During the fall of 2024, he also conducted an environmental scan and surveyed prospective participants in SJU's non-credit Certificate in Catholic Leadership program, students in the current MCT program, and alumni of the program. While a small program generates a small data N, he presented the results of this review to members of the MCT Advisory Committee and senior leaders at SJU in January 2025. Key findings included:

- Strong recommendation not to add to number of courses. The core curricular elements in the program were considered a strength.
- Components of the program valued most were more academic and personal than pragmatic with students and prospective students valuing the opportunity to engage deeply in theology and personal faith formation outside of a seminary context. The ideal program would link faith development and work in a variety of fields including education, pastoral ministry, and health care.
- Students enjoyed the opportunity to explore an area of particular interest in a focused way.
- There were some differences in priorities among current and prospective students. Current students expressed concern about timely degree completion and preferred in-person classes. Prospective students expressed interest in scheduling flexibility and online courses.
- Expanding online options would allow the possibility of recruitment beyond the Diocese of Hamilton and potentially allow cross-registration with similar graduate programs at other institutions.
- The consultant's modeling suggests that, to run four courses, there would need to be 33 student-course enrolments (students in seats, not total students in the program) for the program to be sustainable.

Acting on direction from the SJU VP Academic and Dean, the MCT Advisory Committee considered multiple name changes, new course retirements and new courses, course delivery modes, a variety of strategies to increase enrolments through recruitment, potential academic partnerships, and possible new program outcomes. The MCT Advisory Committee determined that the core academic content should remain, consistent with the external program review recommendations; but the delivery of the content should be modified to align with student demand and SJU resources. Put in a slightly different way, the current Graduate Level Degree Expectations (GLDEs) should remain as a guide for the program's academic content (no changes to the program's learning outcomes); and the academic content in the program should be delivered through a revised course structure.

The following major modification to the MCT program is the result of a comprehensive review of the program, which took place through the Summer and Fall of 2025. It is prompted by recommendations resulting from the 2019-2020 cyclical review of the program, which emphasized the need to focus on program sustainability. This modification is informed by student and alumni input, an environmental scan of similar Master's-level programs, and an assessment of SJU resources available to deliver the program. The overarching objective with this modification is to enhance the student experience by (a) retaining rigorous academic standards; (b) providing students with increased access to courses (e.g., all courses online), and (c) creating opportunities for students to pursue their specific academic interests while working closely with a supervisor and supervisory committee (e.g., through the Master's Thesis). There are no changes to the program's learning outcomes.

The proposed program changes were reviewed by the Quality Council (QC) in March 2026, and the QC confirmed that the changes may proceed as major modifications.

General Program/Plan Information

Faculty

St. Jerome's University

Academic Unit

St. Jerome's University

Graduate Field of Study

Catholic Thought

Faculty

St. Jerome's University

Program/Plan Name

Master of Catholic Thought (MCT)

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Proposed
Study Options (New) Thesis
Existing
Study Options (New) Master's Research Paper

Admit Term(s)

Proposed
Admit Term(s) Fall
Existing
Admit Term(s) Spring

Delivery Mode

Proposed
Delivery Mode Online
Existing
Delivery Mode

Delivery Mode Information

Proposed
Delivery Mode Information St. Jerome's University campus. Required courses are offered online.
Existing
Delivery Mode Information St. Jerome's University campus. Note: Some aspects of the program are offered via live-conferencing.

Length of Program

Proposed
Length of Program <ul style="list-style-type: none"> • Full-time option: 6 terms (24 months) • Part-time option: 12 terms (48 months)
Existing
Length of Program <ul style="list-style-type: none"> • Full-time option: two years • Part-time option: four-five years

Registration Option(s)

Full-time, Part-time

Graduate Research Fields

- Theology

Admissions

Admission Requirements: Minimum Requirements

Proposed

Admission Requirements: Minimum Requirements

- A four-year Bachelor's degree or equivalent, in any discipline, with a minimum overall average 75%. Applicants who do not meet these requirements may be considered for admission on an exceptional basis, provided they demonstrate equivalent qualifications.
- All applicants must complete program-specific questions in the application portal. Students should comment on their reasons for applying to the program, their academic record, their employment record, professional goals, and research interests in the general area of Catholic thought.
- The Graduate Admissions Committee will normally consider the applications only after reviewing all the required documents. Application material submitted in support of the application will not be returned.
- [English language proficiency \(ELP\)](#) (if applicable)

Existing

Admission Requirements: Minimum Requirements

- A four-year Bachelor's degree, in any discipline, with a minimum overall average 75%. Applicants who do not meet these requirements may be considered for admission on an exceptional basis, provided they demonstrate equivalent qualifications.
- All application package uploads must include a Supplementary Information Form. Students should comment on their reasons for applying to the program, their academic record, their employment record, any special interest in the area of theological education, their personal interests, activities and goals.
- The Graduate Admissions Committee will normally consider the applications only after reviewing all the required documents. Application material submitted in support of the application will not be returned.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

Proposed

Admission Requirements: Application materials

- Program-specific questions
- Transcript(s)

Existing

Admission Requirements: Application materials

- Supplementary information form
- Transcript(s)

Admission Requirements: References

Proposed

Admission Requirements: References

- Number of references: 3
- Type of references:
 - 2 academic
 - 1 from an employer, supervisor, other professional, or academic

Existing

Admission Requirements: References

- Number of references: 3
- Type of references:
 - 2 academic
 - 1 from employers, supervisors, other professionals and academics

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Thesis Option: Course Requirements

Required Courses

- Complete all of the following
- Complete all the following:
 - Course Not Found
 - Course Not Found
 - Course Not Found
 - Course Not Found
- Students must obtain an overall average of 75% in the four required courses to continue to the thesis stage of the program. Courses offered through other universities may count toward degree requirements with the approval of the Program Director. No more than two courses from other universities will count toward a student's course requirements.

Thesis Option: Milestone Requirements

Master's Thesis

- Students are required to complete a Master's Thesis based on the results of original research and in accordance with program guidelines. The Master's Thesis should be 75 to 100 double-spaced pages in length. The thesis is equivalent to four one-term courses (0.50 unit weight); consequently, the thesis preparation should occupy approximately half of the student's allotted time in graduate studies.
- Students will write a thesis on a topic within the general area of Catholic thought or choose to write a thesis in an area of concentration.
- Students will defend the thesis before an examining committee consisting of the supervisor, at least one program tenured or tenure-track faculty member, and an examiner (who may be internal or external* to the University) whose expertise can support the evaluation of the thesis. The examining committee will consider both the written thesis and the defense in reaching a final evaluation. *Note: The addition of an external examiner would require the approval of the Associate Dean, Graduate Studies.

Notes

Proposed

Notes

- [Master of Catholic Thought website](#)
- [Master of Catholic Thought \(MCT\) future graduate students program page](#)

Existing

Notes

- [Master of Catholic Thought website](#)
- [Master of Catholic Thought \(MCT\) future students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow

St. Jerome's University

Faculty of Arts

Dependencies

There are no dependencies

PhD in Applied Philosophy - Doctor of Philosophy (PhD) in Applied Philosophy

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Effective Date and Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-28

Quality Assurance Designation

Major Modification Qad

Major Modification Categories

Add/re-name a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Closure of a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Is there an impact to existing students?

No

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Revising the Ph D in Philosophy Graduate Research Fields.

The following research fields are being added:

- 1) Anti-Racist Philosophy and Decolonial Philosophy
- 2) Feminist Philosophy

The following research fields are being removed:

- 1) Language, Logic and Metaphysics
- 2) Mind and Cognitive Science

The faculty complement in Philosophy has changed dramatically over the last fifteen years through departures, retirements, and hiring. While we maintain strength in the “Philosophy of Science and Mathematics”, and in the “Ethics and Political Philosophy” research fields, this is not so for the other fields that we list. There are no philosophers with full-time appointments in Philosophy with graduate supervision in their contracts who specialize in metaphysics, philosophy of mind, or cognitive science. We have only one who specializes in each of logic and philosophy of language. It is therefore misleading to applicants that we list “Language, Logic, and Metaphysics” and “Mind and Cognitive Science” as two of our four research fields. We propose to close these two research fields and add the following two research fields: “Feminist Philosophy” and “Anti-Racist Philosophy and Decolonial Philosophy.” For each of these new research fields, we have five graduate supervisors available within the Department. These are growing subdisciplines in philosophy, and our department is one of only a small number in the country that can claim sufficient strength in them to list them as research fields. Indeed, these represent significant strengths of our department, which are important to highlight. The change will make it much easier for potential applicants who work in these areas to find the Department, and it will forestall confusion from those who work in the areas in which we no longer offer supervision. There are no changes to the programs’ learning outcomes.

Current and recent graduates have been consulted about the changes and are supportive.

General Program/Plan Information**Faculty**

Faculty of Arts

Academic Unit

Department of Philosophy

Graduate Field of Study

Philosophy

Faculty

Faculty of Arts

Program/Plan Name

Doctor of Philosophy (Ph D) in Applied Philosophy

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Admit Term(s)

Fall

Delivery Mode

On-campus

Registration Option(s)

Full-time, Part-time

Graduate Research Fields

Proposed

Graduate Research Fields

- Anti-Racist Philosophy and Decolonial Philosophy
- Ethics and Political Philosophy
- Feminist Philosophy
- Philosophy of Science and Mathematics

Existing

Graduate Research Fields

- Ethics and Political Philosophy
- Language, Logic and Metaphysics
- Mind and Cognitive Science
- Philosophy of Science and Mathematics

Admissions

Admission Requirements: Minimum Requirements

- The average required for admission to the Ph D in Applied Philosophy program is 80%.
- The typical background for Applied Philosophy Ph D students is a Master of Arts (MA) in Philosophy.
- Applicants with a Master's in a related discipline are encouraged to apply. Depending on the amount of philosophy background, these applicants may be admitted to the Ph D in Applied Philosophy program or may be admitted to the MA in Philosophy program. (A separate application to the MA program is not required.)
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Statement of interest
 - Statements answering the questions below:
 - Question 1: Please provide a brief statement of interest that outlines the areas of philosophy you hope to pursue in the program. Include an explanation of your interests in applied philosophy, and what kind of placement you hope to engage in.
 - Question 2: Please explain why the University of Waterloo's Department of Philosophy is a good place to pursue such a project, and why your background makes you well suited to pursue it successfully. Include any work or volunteer experience relevant to your interests in applied philosophy.
- Transcript(s)
 - From previous institutions.
 - At the time of applying, an unofficial transcript is fine; if and when a student is enrolled they will be asked to

- submit official copies.
- Writing sample
 - A philosophy paper of around 2500 words is desirable; longer and shorter papers are acceptable too, but please do not send anything longer than 5,000 words.

Admission Requirements: References

- Number of references: 3
- Type of references: academic (1 of which may be from a referee outside of academic philosophy)

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Graduate Course Requirements

No Rules

Graduate Course Requirements

- Students must complete the following courses:
 - PHIL 680A/PHIL 680B Departmental Graduate Seminar.
 - The seminar is a graduate level survey course intended to acquaint students with a number of topics under active investigation in the philosophical literature in a specific area of philosophy.
 - 5 one-term Philosophy graduate courses (0.50 unit weight per course), at least 2 of which are PHIL 675.
 - With the approval of the Graduate Officer, a student may replace one Philosophy graduate course (0.50 unit weight) with a graduate course from another department/school.
 - 1 applied research placement course: PHIL 699 Applied Research Placement Tutorial.
 - The applied research placement is an eight-month activity during which roughly half of the time is spent doing background research and learning relevant to a particular topic, three or four months are spent in a placement with a host organization confronting a practical problem related to that topic, and one month is

spent completing writing and research projects.

- The intention is that the applied research placement will prepare the student to make a research contribution in a particular area of philosophy.
- The student selects a faculty supervisor for the Applied Research Placement in consultation with their pro tem advisor and the Advisor for Applied Philosophy. The Advisor for Applied Philosophy and the supervisor will work with the student to find a suitable applied philosophy research project in the student's area of interest.
- The faculty member supervising the Applied Research Placement may assign readings and assign papers, and may also require the taking or auditing of relevant courses if a student requires enhanced foundational knowledge of theory, methods, or topic area. The supervisor will also determine the basis for assigning the grade for the Applied Research Placement. The Applied Research Placement supervisor may, in consultation with the Graduate Officer, choose to have a second faculty member participate in the assessment of any assignment or component. Work which has been submitted for credit in a course may not be submitted for credit in an Applied Research Placement.
- To be admitted to the thesis proposal stage, students must complete these courses (i.e., seminar, courses, and applied research placement) with an average of 83% and no mark lower than 75%.
- Students are expected to complete their courses (i.e., seminar, courses, and applied research placement) during the first five terms of their doctoral studies. Students who do not complete this work within five terms may only continue in the program at the Department's discretion. The Department may choose to set a further deadline for the completion of outstanding coursework or the applied research placement on a case-by-case basis. Students who do not meet all such further deadlines may be required to withdraw from the program.
- In a case where the failure to meet progression requirements are solely due to problems in completing the applied research placement that are judged not to be primarily the responsibility of the student, they may be permitted to transfer to the Philosophy Ph D program.

Milestone Requirements

Ph D Thesis Proposal

- Upon completion of their courses (i.e., seminar, courses, and applied research placement), students are admitted to the thesis proposal stage. They should then undertake discussions with a member of the Department and invite that person to be supervisor of their doctoral thesis, and should consult with the Graduate Officer concerning the formation of their Thesis Committee. Students will then complete a dissertation prospectus. The project must involve the use of philosophical techniques or concepts to understand actual cases or substantial empirical or interdisciplinary work. The Thesis Committee examines the student about the prospectus as they see fit, though normally in an oral exam. The Committee may pass the proposal; pass it with revisions; or require the student to revise the proposal for re-examination. At the re-examination the Committee may pass the proposal; or they may reject the proposal and require the student to withdraw from the program.

Ph D Thesis

- Upon successful defence of the dissertation prospectus, students proceed to the thesis stage. The dissertation project may take the form of a traditional monograph, or it may take the form of several scholarly papers on interrelated topics, or it may take the form of scholarly papers together with work of a different type. In the case of the last option, the scholarly work should form the major component of the project, and the final part may take another form: it could be one or several publications for the press (for example, one in-depth article or three op-ed pieces); it could be a policy recommendation; it could be a contribution to industry (for example, part of a corporate ethics code). In the latter case, the student may be examined on the entire dissertation project at the defense, but it is expected that most of the questioning and most of the decision will be based on discussion of the scholarly component. The Ph D degree is awarded after the project has been successfully defended in a public meeting and the student has submitted the final approved version of their thesis to UWSpace.

Other requirements

- Teaching preparation: Ph D students will normally complete the Centre for Teaching Excellence (CTE), CTE's Fundamentals of University Teaching, course in their first year. Completion of this course is required before students are eligible to teach courses independently for the Department of Philosophy. The Department recommends that students who intend to pursue a career in university teaching also complete CTE's Certificate in University Teaching during their time in the program.
- [TCPS 2 Tutorial Course on Research Ethics \(CORE\)](#): Students will normally complete the CORE human ethics training in their first two terms. They may be required to complete it before the start of a placement with a host as part of PHIL 699 Applied Research Placement. If a student's placement does not require TCPS 2, the student is required, nonetheless, to complete TCPS 2 by the end of their fifth term.

Notes

- [Department of Philosophy website](#)
- [Doctor of Philosophy \(Ph D\) in Applied Philosophy future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

There are no dependencies

PhD in Philosophy - Doctor of Philosophy (PhD) in Philosophy

[Top](#)

Effective Date and Career

Career

Graduate

Effective Term and Year

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Change

Academic Unit Approval

2025-11-28

Quality Assurance Designation

Major Modification Qad

Major Modification Categories

Add/re-name a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Closure of a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Is there an impact to existing students?

No

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Revising the Ph D in Philosophy Graduate Research Fields.

The following research fields are being added:

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- 2) Feminist Philosophy

The following research fields are being removed:

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which we no longer offer supervision. There are no changes to the programs' learning outcomes.

Current and recent graduates have been consulted about the changes and are supportive.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of Philosophy

Graduate Field of Study

Philosophy

Faculty

Faculty of Arts

Program/Plan Name

Doctor of Philosophy (Ph D) in Philosophy

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Admit Term(s)

Fall

Delivery Mode

On-campus

Registration Option(s)

Full-time, Part-time

Graduate Research Fields

Proposed

Graduate Research Fields

- Anti-Racist Philosophy and Decolonial Philosophy
- Ethics and Political Philosophy
- Feminist Philosophy
- Philosophy of Science and Mathematics

Existing

Graduate Research Fields

- Ethics and Political Philosophy
- Language, Logic and Metaphysics
- Mind and Cognitive Science
- Philosophy of Science and Mathematics

Admissions

Admission Requirements: Minimum Requirements

- The average required for admission to the Ph D in Philosophy program is 80%.
- The typical background for Ph D students is a Master of Arts (MA) in Philosophy.
- Applicants with a Master's in a related discipline are encouraged to apply. Depending on the amount of philosophy background, these applicants may be admitted to the Ph D in Philosophy program or may be admitted to the MA in Philosophy program. (A separate application to the MA program is not required.)
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Statement of interest
 - Statements answering the questions below:
 - Question 1: Please provide a brief statement of interest that outlines the areas of philosophy you hope to pursue in the program.
 - Question 2: Please explain why the University of Waterloo's Department of Philosophy is a good place to pursue such a project, and why your background makes you well suited to pursue it successfully.
- Transcript(s)
 - From previous institutions.
 - At the time of applying, an unofficial transcript is fine; if and when a student is enrolled they will be asked to submit official copies.
- Writing sample
 - A philosophy paper of around 2500 words is desirable; longer and shorter papers are acceptable too, but please do not send anything longer than 5,000 words.

Admission Requirements: References

- Number of references: 3
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Graduate Course Requirements

No Rules

Graduate Course Requirements

- Students must complete the following courses:
 - PHIL 680A/PHIL 680B Departmental Graduate Seminar.
 - The seminar is a graduate level survey course intended to acquaint students with a number of topics under active investigation in the philosophical literature in a specific area of philosophy.
 - 5 one-term Philosophy graduate courses (0.50 unit weight per course).
 - With the approval of the Graduate Officer, a student may replace one Philosophy graduate course (0.50 unit weight) with a graduate course from another department.
 - 1 research area course (PHIL 698 Research Area Tutorials for Ph D).
 - The intention is that each research area will prepare the student to make a research contribution in a particular area of philosophy.
 - The student selects a faculty supervisor for the Research Area in consultation with their pro tem advisor and the Graduate Officer. While it is possible to do an area in one of the traditional divisions of philosophy (e.g., Metaphysics, Ethics, Logic or History of Philosophy), it will normally be on a more specific topic (e.g., Theories of Meaning and Mental Content, Theories of Human Rights, Theories of Truth, Plato's Later Dialogues).
 - The faculty member supervising a Research Area will determine the program for it, which normally should be designed to be completed by the student in two terms. In determining the assignments for the Research Area, the faculty member may assign readings and assign papers, and may also require the taking or auditing of relevant courses if a student requires enhanced foundational knowledge of theory, methods, or topic area. The faculty member will also determine the basis for assigning the grade for the Research Area. The Research Area supervisor may, in consultation with the Graduate Officer, choose to have a second faculty member participate in the assessment of any assignment or component. Work which has been submitted for credit in a course may not be submitted for credit in a Research Area.
- To be admitted to the thesis proposal stage, students must complete these courses (i.e., seminar, courses, and research area) with an average of 83% and no mark lower than 75%.
- Students are expected to complete their courses (i.e., seminar, courses, and research area) during the first five terms of their doctoral studies. Students who do not complete this work within five terms may only continue in the program at the Department's discretion. The Department may choose to set a further deadline for the completion of outstanding coursework or the research area on a case-by-case basis. Students who do not meet all such further deadlines may be required to withdraw from the program.

Milestone Requirements

Ph D Thesis Proposal

- Upon completion of their courses (i.e., seminar, courses, and research area), students are admitted to the thesis proposal stage. They should then undertake discussions with a member of the Department and invite that person to be supervisor of their doctoral thesis, and should consult with the Graduate Officer concerning the formation of their Thesis Committee. Students will then complete a dissertation prospectus. The Thesis Committee examines the student about the prospectus as they see fit, though normally in an oral exam. The Committee may pass the proposal; pass it with revisions; require the student to revise the proposal for re-examination. At the re-examination the Committee may pass the proposal; or they may reject the proposal and require the student to withdraw from the program.

Ph D Thesis

- Upon successful defence of the dissertation prospectus, students proceed to the thesis stage. The Ph D degree is awarded

after the thesis has been successfully defended in a public meeting and the student has submitted the final approved version of their thesis to UWSpace.

Other requirements

- Teaching preparation: Ph D students will normally complete the Centre for Teaching Excellence (CTE), CTE's Fundamentals of University Teaching, course in their first year. Completion of this course is required before students are eligible to teach courses independently for the Department of Philosophy. The Department recommends that students who intend to pursue a career in university teaching also complete CTE's Certificate in University Teaching during their time in the program.

Notes

- [Department of Philosophy website](#)
- [Doctor of Philosophy \(Ph D\) in Philosophy future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

There are no dependencies

Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-28

Quality Assurance Designation
Major Modification Qad

Major Modification Categories

Add/re-name a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Closure of a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Is there an impact to existing students?
No

Is the credential name changing?
No

Graduate Co-operative Requirements
Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Revising the MA in Philosophy Graduate Research Fields.

The following research fields are being added:

- 1) Anti-Racist Philosophy and Decolonial Philosophy
- 2) Feminist Philosophy

The following research fields are being removed:

- 1) Language, Logic and Metaphysics
- 2) Mind and Cognitive Science

The faculty complement in Philosophy has changed dramatically over the last fifteen years through departures, retirements, and hiring. While we maintain strength in the “Philosophy of Science and Mathematics”, and in the “Ethics and Political Philosophy” research fields, this is not so for the other fields that we list. There are no philosophers with full-time appointments in Philosophy with graduate supervision in their contracts who specialize in metaphysics, philosophy of mind, or cognitive science. We have only one who specializes in each of logic and philosophy of language. It is therefore misleading to applicants that we list “Language, Logic, and Metaphysics” and “Mind and Cognitive Science” as two of our four research fields. We propose to close these two research fields and add the following two research fields: “Feminist Philosophy” and “Anti-Racist Philosophy and Decolonial Philosophy.” For each of these new research fields, we have five graduate supervisors available within the Department. These are growing subdisciplines in philosophy, and our department is one of only a small number in the country that can claim sufficient strength in them to list them as research fields. Indeed, these represent significant strengths of our department, which are important to highlight. The change will make it much easier for potential applicants who work in these areas to find the Department, and it will forestall confusion from those who work in the areas in which we no longer offer supervision. There are no changes to the programs’ learning outcomes.

Current and recent graduates have been consulted about the changes and are supportive.

General Program/Plan Information**Faculty**

Faculty of Arts

Academic Unit

Department of Philosophy

Graduate Field of Study

Philosophy

Faculty

Faculty of Arts

Program/Plan Name

Master of Arts (MA) in Philosophy

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Thesis / Coursework

Admit Term(s)

Fall

Delivery Mode

On-campus

Length of Program

- 3 terms (12 months)

Registration Option(s)

Full-time, Part-time

Graduate Research Fields

Proposed

Graduate Research Fields

- Anti-Racist Philosophy and Decolonial Philosophy
- Ethics and Political Philosophy
- Feminist Philosophy
- Philosophy of Science and Mathematics

Existing

Graduate Research Fields

- Ethics and Political Philosophy
- Language, Logic and Metaphysics
- Mind and Cognitive Science
- Philosophy of Science and Mathematics

Admissions

Admission Requirements: Minimum Requirements

- The average required for admission to the Master of Arts (MA) in Philosophy program is 78%.
- The typical background for MA students is a four-year Honours Bachelor of Arts in Philosophy.
- Applicants with a three-year general BA in Philosophy may also apply and may be accepted as "qualifying" students who will take a qualifying program that normally includes a minimum of eight specified undergraduate courses over a minimum of two terms. Completion of a qualifying program does not automatically entitle students to proceed towards the MA. Students who wish to enter the MA program after completing a qualifying program must apply again in the normal way.
- Applicants with a 4-year Honours Bachelor's in another field who have a philosophy minor or significant philosophy background are encouraged to apply. Applicants should keep in mind that reference letters from philosophy professors are strongly preferred. Depending on the amount of philosophy background, these applicants may be admitted either as regular students or as "transitional" students. A transitional student will normally be required to complete selected graduate or undergraduate courses, to be specified in writing at the time the student is recommended for admission, in addition to the usual requirements of the MA program. A transitional student is admitted directly into the MA program and is eligible for funding.
- Applicants with a 4-year Honours Bachelor's in another field who have only some philosophy background may also apply and may be accepted as "qualifying" students who will take a qualifying program that normally includes a minimum of eight specified undergraduate courses over a minimum of two terms. Completion of a qualifying program does not automatically entitle students to proceed towards the MA. Students who wish to enter the MA program after completing a qualifying program must apply again in the normal way.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Statement of interest
 - Statements answering the questions below:
 - Question 1: Please provide a brief statement of interest that outlines the areas of philosophy you hope to pursue in the program.
 - Question 2: Please explain why the University of Waterloo's Department of Philosophy is a good place to pursue such a project, and why your background makes you well suited to pursue it successfully.
- Transcript(s)
 - From previous institutions.
 - At the time of applying, an unofficial transcript is fine; if and when a student is enrolled they will be asked to submit official copies.
- Writing sample
 - A philosophy paper of around 2500 words is desirable; longer and shorter papers are acceptable too, but please do not send anything longer than 5,000 words.

Admission Requirements: References

- Number of references: 3
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements associated with their chosen study option in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Thesis Option: Course Requirements

No Rules

Thesis Option: Course Requirements

- Students must complete the following courses:
 - PHIL 680A/PHIL 680B Departmental Graduate Seminar.
 - 3 one-term graduate courses (0.50 unit weight per course).
 - 1 directed research course (PHIL 696 Directed Research for MA Candidates).
- The directed research course will normally be taken with the thesis supervisor, and will involve research leading to the production of the thesis. Students wishing to take this option should have decided on their topic by mid-year.
- Students must complete PHIL 680A/PHIL 680B and the 3 one-term courses required for the degree with a 78% average with at least one mark in the 80-100% range. The grade requirement for PHIL 696, the preparatory research course for the thesis, is a mark no lower than 78%.

Thesis Option: Milestone Requirements

Master's Thesis

- The thesis must be accepted by a committee made up of the thesis supervisor and two other members of the department, to be selected in consultation with the Graduate Officer.

Coursework Option: Course Requirements

No Rules

Coursework Option: Course Requirements

- Students must complete the following courses:
 - PHIL 680A/PHIL 680B Departmental Graduate Seminar.
 - 3 one-term graduate courses (0.50 unit weight per course).
 - 3 directed research courses (PHIL 696 Directed Research for MA Candidates).
- The 3 directed research courses involve writing research papers under the supervision of three different members of the department. The choice of subjects is not restricted in advance, but must be agreed to by the student's supervisor and by the Graduate Officer. Students with special interests may take 1 of these courses with a member of another department if they have received approval from the Graduate Officer.
- Students must complete PHIL 680A/PHIL 680B and the 3 one-term courses required for the degree with a 78% average with at least one mark in the 80-100% range. The grade requirement for the 3 PHIL 696 directed research courses in lieu of a thesis is no mark lower than 78% with at least 1 in the 80-100% range.

Notes

- [Department of Philosophy website](#)
- [Master of Arts \(MA\) in Philosophy future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Arts

Dependencies

There are no dependencies

PhD in Religion, Culture, and Society - Doctor of Philosophy (PhD) in Religion, Culture, and Society

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed
Effective Term and Year Fall 2026
Existing
Effective Term and Year Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-12-03

Quality Assurance Designation
Major Modification Qad

Major Modification Categories

Change program name

Closure of a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Is there an impact to existing students?

Yes

Impact on Existing Students

Students currently registered in the program will continue under the current requirements, but will have the option of graduating with either the original or new degree name. Students admitted in Fall 2026 and later will conform to the new requirements.

Is the credential name changing?

Yes

Impact of Credential Name Change

The name change applies only to future students (current students may opt in)

Current Student Impact

Students currently registered in the program will continue under the current requirements, but will have the option of graduating with either the original or new degree name. Students admitted in Fall 2026 and later will conform to the new requirements.

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

- 1) Changing the program name from Ph D in “Religious Studies” to Ph D in “Religion, Culture, and Society”.
- 2) Removing the “Religious Diversity in North America” graduate research field.
- 3) Updating the course requirements to include RS 740 and 750 as required courses and remove RS 700 and 710.
- 4) Updating text to account for the Faculty of Arts reorganization.

The joint Ph D in Religious Studies program is being revised to a program in Religion, Culture, and Society. Learning outcomes will be similar, but with less emphasis on North American-specific content. Applicant interest in North American religion has been dropping, and faculty retirements necessitate an expanded range of acceptable topics. Additionally, the Faculty of Arts reorganization process has identified faculty with relevant expertise out of the Religious Studies Department who could fruitfully contribute to the Ph D if the scope is broadened. A broad discussion and reassessment process following the Ph D program cyclical review has led to these proposed changes, with input and support from current and former students, faculty at both institutions, outside reviewers, and staff. With the removal of the Religious Diversity in North America graduate research field, the required courses on North America need to be replaced with appropriate courses. The elimination of the Religious Studies Department under the Arts reorganization requires fine-tuning of language, such as replacing references to the Department with references to the program and clarifying that it is the Joint Ph D Director (not the new School Director) who is referenced in the program/plan. As part of a reconsideration of milestones in the recent program cyclical review process, certain procedures are being modified, such as allowing students to do the language milestone and thesis proposal after the comprehensive exams. All of the program changes proposed in this document have already been passed by our joint program partners in the Religion and Culture Department at Wilfrid Laurier University and been passed by the WLU Graduate Faculty Council. Modified language here attempts to conform as closely as possible to their new plan language while adhering to the institutionally-specific requirements of the University of Waterloo.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of Religious Studies

Graduate Field of Study

Religious Studies

Faculty

Faculty of Arts

Program/Plan Name

Proposed

Program/Plan Name

Doctor of Philosophy (Ph D) in Religion, Culture, and Society

Existing

Program/Plan Name

Doctor of Philosophy (Ph D) in Religious Studies

Graduate Credential Type

PhD

Accelerated Program

Not applicable

Program Types

Joint

Admit Term(s)

Fall

Delivery Mode

On-campus

Length of Program

Proposed

Length of Program

- The program is designed to take 4 years for completion. Students must enroll in the program full-time, be available for classes and regular on-campus consultation for at least the first two calendar years, and complete a minimum of six terms beyond the Master of Arts (MA). Students are expected to proceed through the program in a timely fashion. Normally, students must complete the course work and finish their proposal in the first year; comprehensive exams and proposal in the second year; and the dissertation project in the third and fourth years. The responsibilities of the supervisor and the Advisory Committee notwithstanding, the candidate is responsible for ensuring that program requirements and deadlines are met in a timely fashion.

Existing

Length of Program

- The program is designed to take 4 years for completion. Students must enroll in the program full-time, be available for classes and regular on-campus consultation for at least the first two calendar years, and complete a minimum of six terms beyond the Master of Arts (MA). Students are expected to proceed through the program in a timely fashion. Normally, students must complete the course work and finish their proposal in the first year; comprehensive exams in the second year; and the dissertation project in the third and fourth years. The responsibilities of the supervisor and the Supervisory Committee notwithstanding, the candidate is responsible for ensuring that program requirements and deadlines are met in a timely fashion.

Registration Option(s)

Full-time

Graduate Research Fields

Proposed

Graduate Research Fields

Existing

Graduate Research Fields

- Religious Diversity in North America

Additional Program Information

Proposed

Additional Program Information

- Drawing on the combined resources of the Department of Religion and Culture at Wilfrid Laurier University and faculty in the Religion, Culture, and Spirituality program at the University of Waterloo, the Laurier-Waterloo Ph D in Religion, Culture, and Society is offered as a joint degree program.

Existing

Additional Program Information

- Drawing on the combined resources of the Department of Religion and Culture at Wilfrid Laurier University and the Department of Religious Studies at the University of Waterloo, the Laurier-Waterloo Ph D in Religious Studies offers a concentration in the religious diversity of North America.

Admissions

Admission Requirements: Minimum Requirements

Proposed

Admission Requirements: Minimum Requirements

- Only graduates of accredited universities and colleges are eligible for admission.
- Students apply to the joint program, designating one of the two universities as the preferred home institution. A student may be offered admission to the partner institution if the Joint Committee deems this choice more appropriate because of the student's interests or the availability of suitable supervisors. Applications are considered by the Joint Committee, and recommendations for admission or rejection are made by the Joint Ph D Program Director to the Associate Provost/Dean, Graduate Studies at the proposed home university. Students are governed by the rules of the university in which they are registered, and their degree is granted by that same university; however, students may use faculty and library resources at both universities.
- Students must normally have a Master's degree or its equivalent in Religious Studies or a closely allied field with an 80% overall standing. Completion of a Master's thesis is strongly preferred.
- If the MA is in an allied field, the candidate must have a minimum of 10 one-term (half-credit) courses, or their equivalent, in the academic study of religion.
- Students lacking the necessary qualifications may be required to complete additional qualifying work to establish academic eligibility to apply for the program. Students allowed to transfer from other doctoral programs must meet all of the degree requirements (or their equivalent, as determined by the Joint Committee); normally, credit for doctoral level work done elsewhere is not transferrable.
- Students' Advisory Committees normally consist of three members drawn from the University of Waterloo program in Religion, Culture, and Spirituality and/or the Wilfrid Laurier University Department of Religion and Culture. One of the three committee members is the supervisor, who must be at the student's home institution. Such committees are appointed within the student's first year in the program after consultation with the student. Requests for changes in Advisory Committee membership must be addressed to the Joint Ph D Program Director and decided upon by the

Joint Committee.

- [English language proficiency \(ELP\)](#) (if applicable)

Existing

Admission Requirements: Minimum Requirements

- Only graduates of accredited universities and colleges are eligible for admission.
- Students apply to the joint program, designating one of the two universities as the preferred home institution. A student may be offered admission to the partner institution if the Joint Committee deems this choice more appropriate because of the student's interests or the availability of suitable supervisors. Applications are considered by the Joint Committee, and recommendations for admission or rejection are made by the Director to the Associate Provost, Graduate Studies at the proposed home university. Students are governed by the rules of the university in which they are registered, and their degree is granted by that same university; however, students may use faculty and library resources at both universities.
- Students must normally have a Master's degree or its equivalent in Religious Studies or a closely allied field with an 80% overall standing. Completion of a Master's thesis is strongly preferred.
- If the MA is in an allied field, the candidate must have a minimum of 10 one-term (half-credit) courses, or their equivalent, in the academic study of religion.
- Students lacking the necessary qualifications may be required to complete additional qualifying work to establish academic eligibility to apply for the program. Students allowed to transfer from other doctoral programs must meet all of the degree requirements (or their equivalent, as determined by the Joint Committee); normally, credit for doctoral level work done elsewhere is not transferrable.
- Students' Supervisory Committees normally consist of three members drawn from the University of Waterloo Department of Religious Studies and/or the Wilfrid Laurier University Department of Religion and Culture. One of the three committee members is the supervisor, who must be at the student's home institution. Such committees are appointed within the student's first year in the program after consultation with the student. Requests for changes in Supervisory Committee membership must be addressed to the Director and decided upon by the Joint Committee.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Program-specific questions (PSQ)
- Résumé/Curriculum vitae
- Transcript(s)
 - From all other post-secondary institutions.
- Writing sample

Admission Requirements: References

- Number of references: 3
- Type of references: academic

Requirements Information

Graduate Degree Requirements

- Students must complete the course and milestone requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Graduate Course Requirements

No Rules

Graduate Course Requirements

Proposed

Graduate Course Requirements

- Students must complete a minimum of 4 one-term courses beyond the MA. Students are required to take RS 740 Theories and Methods in the Study of Religion, Culture, and Society and RS 750 Case Studies in Religion, Culture, and Society, as well as 2 electives to be approved by the Graduate Officer.
- Depending on a student's goals and admission assessment, additional course work may be required.
- Students must achieve at least a 75% in each course.

Existing

Graduate Course Requirements

- Students must complete a minimum of 4 one-term courses beyond the MA. Students are required to take RS 700 Religious Diversity in North America and RS 710 Approaches to the Study of Religion in North America, as well as 2 electives to be approved by the Graduate Officer.
- Depending on a student's goals and admission assessment, additional course work may be required.
- Students must achieve at least a 75% in each course.

Milestone Requirements

Proposed

Milestone Requirements

Ph D Language Requirement

- Students must demonstrate knowledge of a second language relevant to the field and/or the dissertation. Whether this knowledge is reading or speaking knowledge (or both) depends on the nature of the proposed research. If the topic of the dissertation makes knowledge of a third language essential, the candidate must demonstrate competence in this language as well. Students are not permitted to defend their dissertation until all language requirements are met.

Ph D Thesis Proposal

- The proposal is a written document outlining the dissertation project. The proposal must be formally accepted by both the student's Advisory Committee and the Joint Committee before proceeding to the dissertation project. Subsequent, substantive changes in the proposal must be approved by the Advisory Committee and the Joint Ph D Program Director.

Ph D Comprehensive Examination I and Ph D Comprehensive Examination II

- Students are required to meet the University-level Ph D [Comprehensive Examination](#) minimum requirements, with certain noted exceptions that are specific to the Faculty of Arts Comprehensive Examination minimum requirements:
 - Comprehensive examination purpose: Consistent with University-level minimum requirements.
 - Timing: Consistent with University-level minimum requirements.
 - Committee: Consistent with University-level minimum requirements with the exception that in the Faculty of Arts, the Graduate Chair can approve the committee for comprehensive examinations.
 - Who Chairs an examination: Consistent with University-level minimum requirements.
 - Format / Content: Consistent with University-level minimum requirements.

- Academic integrity: Consistent with University-level minimum requirements.
- In addition to the University-level and Faculty-level Ph D Comprehensive Examination minimum requirements, students in the Ph D in Religion, Culture, and Society program are also required to meet the following requirements:
 - There are two examinations, each based on a bibliography constructed by faculty in consultation with the student. The purpose of the general exam is to ensure breadth and to assess competence in the study of religion, culture, and society. The purpose of the field exam is to focus on an area of specialization containing the dissertation project. A candidate has only two opportunities to complete each of the examinations successfully. These examinations should take place by the end of the candidate's second year in the doctoral program. To be permitted to take the examinations at a later time, a candidate must petition the Joint Ph D Program Director for an extension. Extensions are normally granted only once and then, only for one term.

Ph D Thesis

- Dissertation Project: the dissertation project consists of three required, closely related parts: the dissertation, the public presentation, and the dissertation defense. Students must pass all three parts. Evaluations, carried out by the Advisory Committee, take into consideration the mastery of both style and content.
- Doctoral Dissertation: the doctoral dissertation is a piece of research (approximately 50,000-90,000 words in length) aimed at making an original contribution to the study of religion. The dissertation is prepared in consultation with the Advisory Committee, which includes the candidate's supervisor acting as chair, along with two other faculty members, one of whom may be a member of a non-religious studies department/program.
- Public Presentation: the public presentation is a second distinctive feature of the program. The presentation must be accessible to the public, open to questioning and debate, and subject to faculty evaluation. This presentation may take various formats and must demonstrate the candidate's ability to make the results of research publicly intelligible and engaging for a diverse, educated but non-specialist audience. The public presentation is held in a venue and at a time different from that of the dissertation defense. Holding it in an off-campus location is preferable. Evaluation is on a pass/fail basis, and a pass is required to complete the degree. Evaluation of such presentations is by the Advisory Committee on the basis of a set of criteria available from the Joint Ph D Program Director. A candidate who fails may attempt the presentation only one additional time.
- Thesis Defense: the dissertation defense, which is distinct from the public presentation, is an oral review and evaluation of the dissertation. Prior to the defense, an Examining Committee is established. It includes the Advisory Committee plus an internal examiner from another department/program at either university. A chair (from the university in which the student is registered) and an external examiner (from another university) are appointed by the appropriate Associate Provost/Dean, Graduate Studies. The Advisory Committee recommends external examiners to the Associate Provost/Dean, Graduate Studies. The decision of the Examining Committee is based on the dissertation and the candidate's ability to defend it orally. A candidate who fails may attempt the presentation only one additional time.

Existing

Milestone Requirements

Ph D Language Requirement

- Students must demonstrate knowledge of a second language relevant to the field and/or the dissertation. Whether this knowledge is reading or speaking knowledge (or both) depends on the nature of the proposed research. If the topic of the dissertation makes knowledge of a third language essential, the candidate must demonstrate competence in this language as well. Students are not permitted to begin their dissertation until all language requirements are met.

Ph D Thesis Proposal

- The proposal is a written document outlining the dissertation project. The proposal must be formally accepted by both the student's Supervisory Committee and the Joint Committee before proceeding to the comprehensive examinations and dissertation project. Subsequent, substantive changes in the proposal must be approved by the Supervisory Committee and the Program Director.

Ph D Comprehensive Examination I and Ph D Comprehensive Examination II

- Students are required to meet the University-level Ph D [Comprehensive Examination](#) minimum requirements, with certain noted exceptions that are specific to the Faculty of Arts Comprehensive Examination minimum requirements:
 - Comprehensive examination purpose: Consistent with University-level minimum requirements.
 - Timing: Consistent with University-level minimum requirements.
 - Committee: Consistent with University-level minimum requirements with the exception that in the Faculty of Arts, the Graduate Chair can approve the committee for comprehensive examinations.
 - Who Chairs an examination: Consistent with University-level minimum requirements.
 - Format / Content: Consistent with University-level minimum requirements.
 - Academic integrity: Consistent with University-level minimum requirements.
- In addition to the University-level and Faculty-level Ph D Comprehensive Examination minimum requirements, students in the Ph D in Religious Studies program are also required to meet the following requirements:
 - Students must complete 2 examinations: (a) the general exam is to ensure breadth and to assess competence in the study of religion; (b) the field exam is to focus an area of specialization and to determine readiness for the dissertation project. Each examination, based on a bibliography constructed by the faculty in consultation with the student, has a written and an oral component. A candidate has only two opportunities to complete each of the examinations successfully. These examinations should take place by the end of the candidate's second year in the program. To be permitted to take the examinations at a later time, a candidate must petition the Director for an extension. Extensions are normally granted only once and then, only for one term.

Ph D Thesis

- **Dissertation Project:** the dissertation project consists of three required, closely related parts: the dissertation, the public presentation, and the dissertation defense. Students must pass all three parts. Evaluations, carried out by the Supervisory Committee, take into consideration the mastery of both style and content.
- **Doctoral Dissertation:** the doctoral dissertation is a piece of research (approximately 50,000-90,000 words in length) aimed at making an original contribution to the study of religion. The dissertation must be crafted for publication as a book, although actual publication is not a degree requirement. This way of fulfilling the dissertation requirement is a distinctive feature of the program, and guidelines are available from the Director. The dissertation is prepared in consultation with the Supervisory Committee, which includes the candidate's supervisor acting as chair, along with two other faculty members, one of whom may be a member of a non-religious studies department.
- **Public Presentation:** the public presentation is a second distinctive feature of the program. The presentation must be accessible to the public, open to questioning and debate, and subject to faculty evaluation. This presentation may take various formats and must demonstrate the candidate's ability to make the results of research publicly intelligible and engaging for a diverse, educated but non-specialist audience. The public presentation is held in a venue and at a time different from that of the dissertation defense. Holding it in an off-campus location is preferable. Evaluation is on a pass/fail basis, and a pass is required to complete the degree. Evaluation of such presentations is by the Supervisory Committee on the basis of a set of criteria available from the Program Director. A candidate who fails may attempt the presentation only one additional time.
- **Thesis Defense:** the dissertation defense, which is distinct from the public presentation, is an oral review and evaluation of the dissertation. Prior to the defense, an Examining Committee is established. It includes the Supervisory Committee plus an internal examiner from another department at either university. A chair (from the university in which the student is registered) and an external examiner (from another university) are appointed by the appropriate Associate Provost, Graduate Studies. The Supervisory Committee recommends external examiners to the Associate Provost, Graduate Studies. The decision of the Examining Committee is based on the dissertation and the candidate's ability to defend it orally. A candidate who fails may attempt the presentation only one additional time.

Notes

Proposed

Notes

- [Department of Religious Studies website](#)
- [Doctor of Philosophy \(Ph D\) in Religion, Culture, and Society future graduate students program page](#)

Existing

Notes

- [Department of Religious Studies website](#)
- [Doctor of Philosophy \(Ph D\) in Religious Studies future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

There are no dependencies

Date 2026/04/08

Show Empty Fields

Meeting Information

Agenda Page Title

SGC - Regular Agenda - Faculty of Engineering - April 16, 2026

Career Level

Graduate,

Faculty/Unit

Engineering

Date

2026-04-16

Summary

Program Proposals:

1) Conrad School of Entrepreneurship and Business:

- 1.1) Master of Business, Entrepreneurship and Technology (MBET):
- a) Updating the minimum admissions requirements.
 - b) Revising the number of references that are required for admission.
 - c) Updating the course requirements.
 - d) Adding the following three Graduate Specializations to the program:
AI and Digital Transformations
New Venture Creation and Commercialization
Product Management and Innovation.

2) Management Science and Engineering:

- 2.1) Master of Management Science (MMSc) - Management of Technology:
- a) Changing the name of the "Master of Management Science (MMSc) - Management of Technology" program to "Master of Management Science (MMSc) - Business Analytics".
 - b) Updating the course requirements.

Attachment(s)

Course Proposals

Courses: Retire

No proposals have been added.

Courses: New

No proposals have been added.

Courses: Changes

No proposals have been added.

Programs & Plans Proposals

Programs & Plans: Retire
No proposals have been added.

Programs & Plans: Major Modifications

Code	Title	Type	Workflow Step
Master of Business, Entrepreneurship & Technology (MBET)	Master of Business, Entrepreneurship and Technology (MBET)	Programs	SGC, Senate Graduate Council (SGC)
Master of Management Science (MMSc)- Management of Technology	Master of Management Science (MMSc) - Business Analytics	Programs	SGC, Senate Graduate Council (SGC)

Programs & Plans: Minor Modifications
No proposals have been added.

Regulations Proposals

Regulations: Retire
No proposals have been added.

Regulations: New
No proposals have been added.

Regulations: Changes
No proposals have been added.

Master of Business, Entrepreneurship & Technology (MBET) - Master of Business, Entrepreneurship and Technology (MBET)

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Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change

Quality Assurance Designation

Major Modification Categories

Add/re-name a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Change course/program requirements

Is there an impact to existing students?

Yes

Impact on Existing Students

The full-time option is only one year long. Therefore, there will be no current full-time students in the revised program and it will have no impact on those currently registered.

The part-time option is three years long. Courses are offered separately for each year's cohort. In particular, the current program is a cohort-based program – every student takes the same courses each year – and we plan on maintaining the current schedule. Therefore, there will be no impact on current part-time students. Because the new program allows MBET students to take courses outside of MBET, a few of our part-time students may elect to take semester long courses (up to two). That poses no problem in terms of instruction and is purely at their discretion.

Is the credential name changing?

No

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Proposed changes:

- 1) Updating the admission requirements wording to align with the minimum admission requirements for Master's degree regulations.
- 2) Revising the number of references that are required for admission from three to two.
- 3) Updating the course requirements.
- 4) Adding the following Graduate Specializations to the program:
AI and Digital Transformations
New Venture Creation and Commercialization
Product Management and Innovation

Rationale:

The MBET program was first launched in 2002 to meet a very particular need: a place where entrepreneurs could learn how to start a new venture while actually working on it. The program was meant to be an immersive experience that integrated learning with the many tasks involved in building a new venture. It is important to remember that this predated Velocity (2008) and was only shortly after Communitech appeared (1997). MBET was the first major foray into teaching entrepreneurship at the University of Waterloo. Over its 23 years, MBET has supported many successful ventures such as Fluid AI and Membio and has been a true academic home for entrepreneurship on campus. However, in the years since its inception, many other options have appeared for entrepreneurs: incubators have sprung up both generalized (e.g., Accelerator Centre) and specialized in fields such as health, fashion, and fintech. MBA programs have added entrepreneurship options.

And there are now a surfeit of online resources for budding entrepreneurs. Basically, the initial case for the MBET program has weakened over time. Importantly, we have seen this play out in student numbers as it has become increasingly difficult to meet our recruitment targets despite repeated attempts to market in different ways, in different locations, and to different audiences. Without a significant refresh, the MBET program is unlikely to have a viable future. We want to ensure that however we revise the program, it can still serve the original function of supporting entrepreneurs in their journeys and the entrepreneurial spirit that motivated the decision to create the program in 2002 remains. The MBET is not an MBA with some entrepreneurship courses, it is an entrepreneurial approach to business.

Over the years, about 1/3 of our MBET students have started new ventures. The others have become active in the entrepreneurship ecosystem, gone into the corporate world and taken on roles such as product management, or been involved in organizational innovation. We have interviewed our current full-time and part-time MBET students as well as spoken with alumni of the program. The response to the changes we are proposing was uniformly positive, to the extent that a few of our current students indicated that they would be interested in transferring to the revised program next year, if that would be possible. We have also had students specifically say that with the program changes, they are going to strongly recommend MBET to new people they hadn't considered before. The students also recommended some features (courses, timing, requirements) that we have incorporated into this proposal.

The revised full-time option will be significantly easier to administer. Courses will be offered in a standard one-semester format rather than with classes throughout the year, as is currently done. Students will get marks as most do, i.e., at the end of each term, and teaching will now also be on a regular semester cycle. The new format allows MBET students to take non-MBET specific courses which opens up the possibility to offer Conrad's BE courses to MBET students. Having graduate specializations adds advising complexity, however, as we will now need to support students deciding which specialization to take, if any, and it does make scheduling slightly more complex to ensure we offer courses during specific terms to allow students to complete specializations.

The revised part-time option will be slightly more difficult to administer as a result of the changes. The current format (Friday night & all-day Saturday once every three weeks, approximately) requires careful planning to allow students to do different specializations. As well, because the part-time option runs over three years, there will be different versions of the MBET for the next two years. We have a plan to manage the transition. The impact of program changes won't be felt until the 2027-28 academic year because the first year of the revised part-time option is a mandatory four courses, i.e., no different to administer than our current part-time option. After that, a number of approaches will allow students the ability to take elective courses.

The three graduate specializations were chosen by first considering the recommendations of the previous Cyclical Review. One comment from the reviewers was: "The faculty of Conrad should carefully evaluate their curriculum to identify sequences that would more clearly define the course offerings supporting student product profiles, namely intrapreneurship... and a founder track." The reviewers also noted that we should have a stronger technical component. The new Graduate Specializations do that. Intrapreneurship is represented through the Product Management and Innovation specialization, the founder track by New Venture Creation and Commercialization which is essentially the current version of MBET, and greater technical components both by the new course, Emerging Technologies, as well as the proposed Graduate Specialization in AI and Digital Transformations.

The proposed revisions to the program do not result in any changes to the current learning outcomes.

The requirements for the new specializations are outlined below:

1. Graduate Specialization in AI and Digital Transformations

To receive the Graduate Specialization in AI and Digital Transformations, students must successfully complete the following courses:

- BE 605 Project Management (0.50)
- BE 645 AI Business Applications (0.50)
- BE 650 Digital Transformations (0.50)
- BET 613 Corporate Finance for the Technology-based Organization (0.50)
- Either:
 - BET 615 Corporate Innovation and Consulting (0.50)
 - Or both:
 - BET 615A Corporate Innovation and Consulting: Part 1 (0.25)
 - BET 615B Corporate Innovation and Consulting: Part 2 (0.25)

2. Graduate Specialization in New Venture Creation and Commercialization

To receive the Graduate Specialization in New Venture Creation and Commercialization, students must successfully complete the following courses:

- BE 630 Sales (0.50)
- BET 603 Entrepreneurial Finance for the Technology-based Enterprise (0.50)
- BET 608 Business Model Validation (0.50)
- Either:
 - BET 604 New Technology-based Venture Creation (0.50)
 - Or both:
 - BET 604A New Technology-based Venture Creation: Part 1 (0.25)
 - BET 604B New Technology-based Venture Creation: Part 2 (0.25)

3. Graduate Specialization in Product Management and Innovation

To receive the Graduate Specialization in Product Management and Innovation, students must successfully complete the following courses:

- BE 605 Project Management (0.50)
- BE 630 Sales (0.50)
- BET 613 Corporate Finance for the Technology-based Organization (0.50)
- BET 617 Product Management (0.50)
- Either:
 - BET 615 Corporate Innovation and Consulting (0.50)
 - Or both:
 - BET 615A Corporate Innovation and Consulting: Part 1 (0.25)

General Program/Plan Information

Faculty

Faculty of Engineering

Academic Unit

Conrad School of Entrepreneurship and Business

Graduate Field of Study

Entrepreneurship and Business

Faculty

Faculty of Engineering

Program/Plan Name

Master of Business, Entrepreneurship and Technology (MBET)

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Coursework

Admit Term(s)

Fall

Delivery Mode

On-campus

Length of Program

- Full-time: 3 terms (12 months)
- Part-time: 9 terms (36 months)

Registration Option(s)

Full-time, Part-time

Graduate Specializations

- AI and Digital Transformations
- New Venture Creation and Commercialization
- Product Management and Innovation

Admission Requirements: Minimum Requirements

Proposed

Admission Requirements: Minimum Requirements

- EITHER: A four-year Honours Bachelor's degree (or equivalent) at a Canadian institution with a minimum overall average of 75% or a minimum overall average of 75% over the last 2 years; OR: A four-year Honours Bachelor's degree (or equivalent) outside of Canada with a minimum overall equivalent average of 75% for admission.
- A minimum of one year of full-time work experience obtained either through co-operative work terms as part of an undergraduate academic program or through post-graduate work experience.
- [English language proficiency \(ELP\)](#) (if applicable)

Existing

Admission Requirements: Minimum Requirements

- Applicants who complete an honours degree at a Canadian institution require a minimum overall average of 75% (or equivalent) over 4 years or a minimum overall average of 75% (or equivalent) over the last 2 years for admission. All other applicants require a minimum overall average of 75% (or equivalent) over 4 years in the applicant's previous honours degree program for admission.
- Normally have at least one year of prior work experience obtained either through cooperative work terms as part of an undergraduate academic program or through post-graduate work experience.
- As part of the admissions process, an interview is required. Applicants who are unable to come to campus for a personal interview will be interviewed by telephone.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Résumé
- Statement of interest
- Transcript(s)

Admission Requirements: References

Proposed

Admission Requirements: References

- Number of references: 2
- Type of references:
 - at least 1 academic and a second either academic or professional.

Existing

Admission Requirements: References

- Number of references: 3
- Type of references:
 - at least 1 academic
 - at least 1 professional

Graduate Degree Requirements

- Students must complete the course requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Coursework Option: Course Requirements

1. No Rules

- ~~BET600 – Applied Business Leadership Skills for Entrepreneurs (0.50) BET601 – Strategically Managing the Entrepreneurial Organization (0.50) BET602 – Marketing Strategies for New Technology-based Ventures (0.50) BET603 – Entrepreneurial Finance for the Technology-based Enterprise (0.50) BET604 – New Technology-based Venture Creation (0.50) BET605 – Essential Accounting for Entrepreneurs (0.50) BET607 – Managing Technological Innovation (0.50) BET608 – Business Model Validation (0.50) BET612 – Entrepreneurial Organizations (0.50) BET615 – Corporate Innovation and Consulting (0.50)~~

Coursework Option: Course Requirements

- Students must complete at least 6.00 units of courses from the following lists:
 - Compulsory courses (4.00 units):
 - BE 602 Data Analysis and Management (0.50)
 - BET 600 Applied Business Leadership Skills for Entrepreneurs (0.50)
 - BET 601 Strategically Managing the Entrepreneurial Organization (0.50)
 - BET 602 Marketing Strategies for New Technology-based Ventures (0.50)
 - BET 605 Foundations of Accounting & Finance (0.50)
 - BET 640 Emerging Technologies (0.50)
 - One of:
 - BE 650 Digital Transformations (0.50)
 - BET 607 Managing Technological Innovation (0.50)
 - One of:
 - BET 603 Entrepreneurial Finance for the Technology-based Enterprise (0.50)
 - BET 613 Corporate Finance for the Technology-based Organization (0.50)

- Elective courses: An additional 2.00 units of courses from the following list:
 - BE 603 Operations and Supply Chain Management (0.50)
 - BE 605 Project Management (0.50)
 - BE 630 Sales (0.50)
 - BE 645 AI Business Applications (0.50)
 - BE 650 Digital Transformations (0.50)
 - BE 660 Negotiations (0.50)
 - BE 680 Consulting (0.50)
 - BET 603 Entrepreneurial Finance for the Technology-based Enterprise (0.50)
 - BET 604 New Technology-based Venture Creation (0.50)
 - BET 604A New Technology-based Venture Creation: Part 1 (0.25)
 - BET 607 Managing Technological Innovation (0.50)
 - BET 608 Business Model Validation (0.50)
 - BET 613 Corporate Finance for the Technology-based Organization (0.50)
 - BET 615 Corporate Innovation and Consulting (0.50)
 - BET 615A Corporate Innovation and Consulting: Part 1 (0.25)
 - BET 615B Corporate Innovation and Consulting: Part 2 (0.25)
 - BET 617 Product Management (0.50)
 - At most one 500- or 600-level course, with approval of the Associate Director of the MBET program.
- Students in the MBET program may choose to pursue at most one of the following Graduate Specializations:
 1. AI and Digital Transformations
 2. New Venture Creation and Commercialization
 3. Product Management and Innovation
- A Graduate Specialization is a University recognized credential that appears on the student's transcript but not on the diploma. It signifies successful completion of a defined set of courses that provide in-depth study in a specific area. A student will only obtain the Graduate Specialization on their transcript if they have completed the requirements associated with the MBET degree and the requirements associated with the Graduate Specialization.
- Students pursuing one of the Graduate Specializations must choose their electives and compulsory courses in such a way as to meet all the requirements.
- Note: Not all courses for any given Graduate Specialization are guaranteed to be offered each year or each term. Students are encouraged to take courses when they are offered and should plan accordingly.
- Note: for the part-time option, some courses needed for a Graduate Specialization may only be offered during the week over a single term.

1. Graduate Specialization in AI and Digital Transformations

- To receive the Graduate Specialization in AI and Digital Transformations, students must successfully complete the following courses:
 - BE 605 Project Management (0.50)
 - BE 645 AI Business Applications (0.50)
 - BE 650 Digital Transformations (0.50)
 - BET 613 Corporate Finance for the Technology-based Organization (0.50)
 - Either:
 - BET 615 Corporate Innovation and Consulting (0.50)
 - Or both:
 - BET 615A Corporate Innovation and Consulting: Part 1 (0.25)
 - BET 615B Corporate Innovation and Consulting: Part 2 (0.25)

2. Graduate Specialization in New Venture Creation and Commercialization

- To receive the Graduate Specialization in New Venture Creation and Commercialization, students must successfully complete the following courses:
 - BE 630 Sales (0.50)
 - BET 603 Entrepreneurial Finance for the Technology-based Enterprise (0.50)
 - BET 608 Business Model Validation (0.50)
 - Either:
 - BET 604 New Technology-based Venture Creation (0.50)
 - Or both:
 - BET 604A New Technology-based Venture Creation: Part 1 (0.25)
 - BET 604B New Technology-based Venture Creation: Part 2 (0.25)

3. Graduate Specialization in Product Management and Innovation

- To receive the Graduate Specialization in Product Management and Innovation, students must successfully complete the following courses:
 - BE 605 Project Management (0.50)
 - BE 630 Sales (0.50)
 - BET 613 Corporate Finance for the Technology-based Organization (0.50)
 - BET 617 Product Management (0.50)
 - Either:
 - BET 615 Corporate Innovation and Consulting (0.50)
 - Or both:
 - BET 615A Corporate Innovation and Consulting: Part 1 (0.25)
 - BET 615B Corporate Innovation and Consulting: Part 2 (0.25)

Notes

- [Conrad School of Entrepreneurship and Business website](#)
- [Master of Business, Entrepreneurship and Technology \(MBET\) future graduate students program page](#)

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

Dependencies

Prerequisites

- BET 605 - Essential Accounting for Entrepreneurs [View Program](#)
- BET 602 - Marketing Strategies for New Technology-based Ventures [View Program](#)
- BET 603 - Entrepreneurial Finance for the Technology-based Enterprise [View Program](#)
- BET 604 - New Technology-based Venture Creation [View Program](#)
- BET 607 - Managing Technological Innovation [View Program](#)
- BET 608 - Business Model Validation [View Program](#)
- BET 601 - Strategically Managing the Entrepreneurial Organization [View Program](#)
- BET 620 - Social Entrepreneurship [View Program](#)
- BET 600 - Applied Business Leadership Skills for Entrepreneurs [View Program](#)
- BET 615 - Corporate Innovation and Consulting [View Program](#)
- BET 612 - Entrepreneurial Organizations [View Program](#)

Master of Management Science (MMSc)-Management of Technology - Master of Management Science (MMSc) - Business Analytics

[Top](#)

Effective Date and Career

Career
Graduate

Effective Term and Year

Proposed
Effective Term and Year Fall 2026
Existing
Effective Term and Year Fall 2025

Proposal Details

Proposal Type
Change

Academic Unit Approval
2025-11-03

Quality Assurance Designation
Major Modification Qad

Major Modification Categories

- Change course/program requirements
- Change program name

Is there an impact to existing students?
Yes

Impact on Existing Students

1) All currently registered students in the Master of Management Science (MMSc) - Management of Technology program will have the option of graduating with either the original or revised program name. Details of the program name change will be communicated to students by the Department, via email. By default, students will retain the original program name. Students who wish to change to the revised program name will need to indicate this to the Graduate Officer/Graduate Coordinator.

2) Current students will continue following the existing structure of 6 core courses and 2 electives until graduation, with no disruption to their academic progression. Newly approved courses and the revised structure will apply only to students entering the program after the changes are approved.

Is the credential name changing?
Yes

Impact of Credential Name Change
The name change applies only to future students (current students may opt in)

Current Student Impact

All currently registered students in the Master of Management Science (MMSc) - Management of Technology program will have the option of graduating with either the original or revised program name. Details of the program name change will be communicated to students by the Department, via email. By default, students will retain the original program name. Students who wish to change to the revised program name will need to indicate this to the Graduate Officer/Graduate Coordinator.

Graduate Co-operative Requirements

Not Applicable

Change to Learning Outcomes

No

Rationale and Background for Change(s)

Proposed changes:

1) Changing the name of the “Master of Management Science (MMSc) - Management of Technology” program to “Master of Management Science (MMSc) - Business Analytics”.

2) Updating the course requirements. The new requirements include the following courses:

- MSE682 Organizational Strategy and Innovation
- MSE683 Analytics and Decision-Making
- MSE689 Statistical Learning and Data Science
- At least 5 additional MSE courses

Rationale:

1) One of the goals in our Department’s 2024 strategic plan was to reimagine our online program. This goal originates from the "Final Assessment Report" from our latest cyclical review in 2022. One of the eight recommendations provided by the reviewers was to revitalize our online program by shifting its focus toward data analytics. As noted in the cyclical review report, this shift would align the program more closely with the MMSc program on campus and build on the Department’s strengths in Operations Research and Information Systems, as well as the growing industry demand for data analytics professionals. Accordingly, the Department decided to revitalize the MMSc - Management of Technology Online program through pedagogical innovation, stronger integration within the Department, and updated course materials in response to the reviewers’ comments from the last cyclical review. This plan was also approved by the Dean.

2) The proposed name change addresses the changing market needs and reflects the program’s evolving focus on the integration of business, innovation, and analytical decision-making. It also aligns with our Department’s core strengths in Organizational Behaviour, Management of Technology, Information Systems, and Operational Research, which define the program’s interdisciplinary foundation and applied orientation.

3) The proposed changes directly implement recommendations from the program’s most recent review, titled “The Refurbishment Report,” conducted by five faculty members and one staff member. The report specifically advises renaming and refocusing the program, in line with the Dean’s request. It also notes that the program “lacks a unifying theme or critical mass” and would benefit from stronger thematic specializations. Our proposed name, Business Analytics, addresses both concerns.

4) We aim to make the program more flexible and appealing by reducing the number of required core courses from 6 to 3, allowing students to take at least 5 elective courses instead of 2, while keeping the number of total courses the same.

5) The revised structure remains fully aligned with program learning outcomes while enhancing coherence and flexibility. Although the balance between core and electives has shifted, the program still requires eight courses. Focusing the core on foundational management science skills and expanding elective options supports the review’s recommendation to strengthen the “Analytics” pillar. The updated electives directly reinforce outcomes in evidence-based decision-making, analytical reasoning, innovation, and business strategy under uncertainty.

6) Feedback from Strategic Fuel’s 20 interviews (with 17 students and 3 alumni of the program) that took place in 2023 indicates strong support for a clearer program identity, more analytics-focused content, and greater elective choice. Students reported difficulty understanding the current program branding, expressed a preference for programs with a strong analytics focus, and sought pathways to leadership without pursuing an MBA. They also noted that the existing six core courses limit flexibility. These findings confirm that both the proposed renaming and the expanded elective structure directly address students’ needs and expectations.

7) The tuition rate for the program will remain unchanged, supporting accessibility, competitiveness, and student satisfaction.

General Program/Plan Information

Faculty

Faculty of Engineering

Academic Unit

Department of Management Science and Engineering

Graduate Field of Study

Management Science and Engineering

Faculty

Faculty of Engineering

Program/Plan Name

Proposed

Program/Plan Name

Master of Management Science (MMSc) - Business Analytics

Existing

Program/Plan Name

Master of Management Science (MMSc) - Management of Technology

Graduate Credential Type

Master's

Accelerated Program

Not applicable

Study Options (New)

Coursework

Admit Term(s)

Fall, Winter, Spring

Delivery Mode

Online

Length of Program

- 8 terms (32 months)

Registration Option(s)

Part-time

Admissions

Admission Requirements: Minimum Requirements

- An Honours Bachelor's degree (or equivalent) with a minimum 75% standing in the last two years.
- Background in quantitative methods (e.g., Calculus, Linear Algebra, Probability and Statistics).
- All applicants must submit a "Statement of Purpose" - a one page statement addressing their academic background and future goals.
- Applicants who fall slightly below the minimum academic requirements may be considered for admission as conditional or probationary students.
- [English language proficiency \(ELP\)](#) (if applicable)

Admission Requirements: Application materials

- Résumé/Curriculum vitae
- Statement of interest
- Transcript(s)

Admission Requirements: References

- Number of references: 2
- Type of references: academic (preferred) or professional

Requirements Information

Graduate Degree Requirements

- Students must complete the course requirements listed below in addition to the [Graduate Academic Integrity Module \(Graduate AIM\)](#).

Coursework Option: Course Requirements

1. Complete all of the following
 - Complete all the following:
 - **Course Not Found**
 - **Course Not Found**

- **Course Not Found**
- **Students in the program must complete at least 5 additional MSE courses, totaling a minimum requirement of 8 courses overall (0.50 unit weight per course/4 units of credit). These courses must be at the 600 and 700 level. Students must maintain an overall average of at least 73% at the end of each term, with no more than two failed courses overall.**
- MSE602 – Strategic Management of Technological Innovation (0.50)
- MSE603 – Principles of Operations Research (0.50)
- MSE605 – Organizational Behaviour (0.50)
- MSE606 – Foundations of Senior Management (0.50)
- MSE607 – Applied Economics for Management (0.50)
- MSE609 – Quantitative Data Analysis for Management Sciences (0.50)
- Students in the program must take at least 2 additional courses, totaling a minimum requirement of 8 courses overall (0.50 unit weight per course/4 units of credit). These courses must be at the 600 and 700 level. Students must maintain an overall average of at least 73% at the end of each term, with no more than two failed courses overall.

Notes

Proposed
<p>Notes</p> <ul style="list-style-type: none"> • Department of Management Science and Engineering website • Master of Management Sciences (MMSc) - Business Analytics future graduate students program page
Existing
<p>Notes</p> <ul style="list-style-type: none"> • Department of Management Science and Engineering website • Master of Management Sciences (MMSc) - Management of Technology future graduate students program page

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals

Faculty/AFIW Path(s) for Workflow
Faculty of Engineering

Dependencies

Prerequisites

- MSE 606 - Foundations of Senior Management

[View Program](#)



Memo

DATE: April 2, 2026

TO: Tony Ly, Governance Officer

FROM: Justin Wan, Interim Associate Vice-President, Graduate Studies and Postdoctoral Affairs (GSPA)
Marianne Simm, Director, GSPA

RE: Graduate Studies Academic Calendar (GSAC) updates

Regular agenda item for approval:

- 1) Section 13.2.3 Academic progression: Good academic standing

1) Section 13.2.3 Academic progression: Good academic standing

Description and rationale for proposed changes:

This section currently states that students not in good academic standing may be identified as being in ‘conditional standing’ or ‘alternatively may be required to withdraw’. We are strengthening this ‘alternative’ language. When this was introduced as a section in the Calendar, it was acknowledged that there is uneven application of ‘conditional standing’ across Faculties and programs. While this is still the case, it should be explicitly stated that approval is required by the Associate Dean to move directly to Required to Withdraw (RTW).

Note: this item was presented at the March SGC meeting and members of the committee suggested some minor revisions that are included in this updated version.

Proposed effective date: Term: Fall Year: 2026

Current **Graduate Studies Academic Calendar (GSAC)** page:

<https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/policy/Hk4sA9P0T>

Current Calendar copy	Proposed Calendar copy
<p>13.2.3 Academic progression: Good academic standing</p> <p>A student is deemed to be in Good Academic Standing when they are satisfying their academic requirements which, depending on the program may include:</p> <ul style="list-style-type: none"> • Minimum grade performance in courses. All graduate students are required to achieve grades in these courses satisfying their degree requirements that meet or exceed the minimum academic performance as indicated by the program. • Minimum cumulative average, at least 70%; higher averages may be indicated by the academic program. • Successful completion of milestones / examinations within articulated time limits. Specific examples include the Academic Integrity Module for all graduate students; comprehensive or qualifying examinations for PhD students; and in some programs, proposal presentations or defenses. • Satisfactory progress in research leading to the successful presentation or defense of a student’s Master’s Research Paper (MRP) or thesis, as 	<p>13.2.3 Academic progression: Good academic standing</p> <p>A student is deemed to be in Good Academic Standing when they are satisfying their academic requirements which, depending on the program may include:</p> <ul style="list-style-type: none"> • Minimum grade performance in courses. All graduate students are required to achieve grades in <u>the courses presented in fulfilment of the</u> degree requirements that meet or exceed the minimum academic performance as indicated by the <u>academic</u> program. • Minimum cumulative average, at least 70%; higher <u>minimum</u> averages may be <u>required</u> by the academic program. • Successful completion of milestones / examinations within articulated time limits. Specific examples include the Academic Integrity Module for all graduate students; comprehensive or qualifying examinations for PhD students; and in some <u>academic</u> programs, proposal presentations or defenses. • Satisfactory progress in research <u>in preparation for the successful</u>

determined by the student's supervisor or supervisory committee.

A student will lose their status of Good Academic Standing if one or more of the following outcomes occur:

- The student achieves a grade in an individual course that does not satisfy the minimum required performance.
- A student ~~fails to satisfy a mandatory milestone or examination within the time limits articulated in this Calendar or by the Program / Department.~~
- A student is deemed to be progressing in research at an unsatisfactory rate.

A student deemed not to be in Good Academic Standing ~~may be designated in Conditional Standing.~~

~~Alternatively, a student may be~~ Required to Withdraw, ~~at the discretion of the program.~~

~~Normally, a student will not be granted Conditional Standing more than once in their graduate career.~~

presentation or defense of a student's Master's Research Paper (MRP), Master's or PhD thesis, as determined by the student's supervisor or advisory committee.

All students admitted under standard admissions begin their program in Good Academic Standing. A student will lose their status of Good Academic Standing if one or more of the following outcomes occur:

- The student achieves a failing grade in any course or achieves a grade in an individual course that does not satisfy the minimum required performance.
- The student's cumulative average is less than 70% or is less than that required by the academic program.
- A student does not successfully complete a milestone requirement or examination within the time limits specified in this Calendar or by the Department/School or Academic Program.
- A student is deemed to be progressing in research at an unsatisfactory rate.

Normally, a student deemed not to be in Good Academic Standing will be placed on Conditional Standing. In exceptional cases, a student may be Required to Withdraw at the recommendation of the Graduate Officer and with approval from the Associate Dean (Graduate Studies).

When students are placed on Conditional Standing, they will receive confirmation of the steps, and timeframe, to restore Good Academic Standing. At the end of each term, the performance of each student in Conditional Standing will be assessed by the program against the shared plan. If, by the end of the time stipulated, they have not demonstrated appropriate progress, they will be Required to Withdraw.

Normally, a student can be placed in Conditional Standing at most once during their graduate program; therefore, a repeated failure to meet the requirements to stay in

	<u>Good Academic Standing normally results in a requirement to withdraw.</u>
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For Discussion**Open Session**

To: Senate Graduate Council

From: Pam Fluttert, Director Instructional Technologies & Media Services
Shawn Gilbertson, Manager Course Materials

Date of Meeting: April 16, 2026

Agenda Item: **7. A Collaborative Strategy to Effectively Manage Educational Technology Costs and Decisions**

Recommendation

A student EdTech fee is a key component of a project that is intended to improve the learning experience for students while improving the operational efficiency of the university. More explicitly, the project has the following goals:

1. To prevent uninformed educational technology (EdTech) budget cuts that would have to be based on contract end dates and would result in unplanned increases in ad hoc student costs for technology in courses, implement a small student technology fee for a 2-year pilot, beginning F26, that will,
 - 1.1. protect the EdTech budget from unplanned cuts; and
 - 1.2. provide time to make informed budget decisions and appropriate transition plans for removal of duplicate and/or underused EdTech; and
 - 1.3. address unnecessary ad hoc student costs for courses.
2. Address duplication and inefficiencies in managing EdTech by
 - 2.1. simplifying the hybrid EdTech funding model; and
 - 2.2. prioritizing the use of centrally supported EdTech; and
 - 2.3. implementing an exception protocol for unique pedagogical needs; and
 - 2.4. plan and execute transitions from duplicated and/or unused EdTech.

The pilot test is to allow time to assess the project with respect to its ability to meet these goals, and to make a decision about the advisability of a permanent student EdTech fee.

Summary

The cost of EdTech is rising every year and is no longer sustainable with ongoing budget cuts in today's financial environment. EdTech costs must be reduced and managed more efficiently.

A graduate student technology fee for a 2-year pilot beginning F26, such as \$20 to \$25 for a full-time graduate student (part-time fee approximately 30% of full-time) per term could provide up to an estimated \$285,000 to \$360,000 a year. The fee, in combination with an undergraduate fee, will protect the central EdTech budget from unplanned cuts that would have to be based on contract end dates, thereby providing the opportunity to rationally assess how to return to a sustainable budget and manage ad hoc student costs for courses. Fee details will be finalized in collaboration with GSA before June's Board of Governors meeting. During the pilot, the fee must demonstrate value through student cost savings and/or an improved experience where there is demonstrable progress towards addressing

ad hoc student costs and duplication. The pilot period also provides opportunity to assess if there is potential value and student cost savings in a longer-term technology fee and the criteria.

To address duplication and ad hoc student costs, implement a framework that prioritizes the use of centrally supported software in teaching and learning. To improve student experience and reduce overall costs, assessment of duplicated and underused EdTech, as well as unnecessary ad hoc student costs, will be initiated. Priorities will be set for planned transitions to recommended solutions. In circumstances where there is a unique pedagogical need that central tools do not adequately support, an exception protocol will evaluate requests for other EdTech. The exception protocol will include pedagogical and student voices. A temporary protocol (refer to Documents Provided) is approved by the Provost and is being implemented until a longer-term solution is in place.

Proposal/Rationale

With the support of Deans Council and the Educational Technology (EdTech) Steering committees, the [EdTech Evolution 2.0: Enhancing the Framework](#) project was initiated in 2025 to implement a framework that ensures these technologies are responsibly managed and used to enhance teaching and learning in a way that provides a consistent, secure, and reliable student experience in alignment with university policies, guidelines, and the digital learning strategy. For the purposes of the scope of this project, EdTech is defined as

- a digital tool or platform whose primary, intended purpose is to support formal teaching and learning within credit-bearing courses or approved academic programs; and
- directly contributes to the instructional process by primarily enabling one or more of the following instructional functions:
 - the delivery, creation, curation, or facilitation of instructional content and learning activities
 - student engagement, interaction, or collaboration in support of course learning outcomes
 - the assessment of student learning or performance (formative or summative), including participation of activities that contribute to academic evaluation or the earning of academic credit

The EdTech ecosystem has become complex and unsustainable with rising costs and support demands, and a fragmented decision-making and funding model. The fragmentation degrades the student experience and results in cybersecurity, privacy, and accessibility compliance risks, as well as duplication, increased cost and support demands, and inequitable access to technology. The university has not had the appropriate structures in place to holistically manage EdTech due to a hybrid model where funding is through a combination of central, departments/faculties, instructors, and students. The time has come to implement a framework to successfully navigate the increasing EdTech costs during ongoing financial pressures and budget cuts, manage EdTech more efficiently, and align with the digital learning strategy¹. EdTech decisions must be made holistically as One Waterloo, with an understanding of the impact and implementation of appropriate risk mitigations for the student experience. A planned, holistic approach to address duplication and underuse of EdTech will reduce the EdTech budget and improve student experience.

¹ [Digital Learning Strategy](#) recommendation 3.3(d) to ensure students have appropriate access to tools and technologies, and recommendation 3.6(f) to foster a consistent technological and functional experience

The cost of centrally supported² EdTech has increased from \$1.2M in 2019 to \$2.9M in 2026, with a projected \$3.2M by 2028. Centrally supported data analytics and spatial awareness software that graduate students rely on, such as SAS, ArcGIS, Nvivo, MATLAB, and Qualtrics, add an additional \$600,000 in 2026. These costs do not include the total spent by instructors, departments/faculties and students. With the current hybrid model, a response to growing costs of EdTech and budget cuts requires fragmented decisions based on central contract end dates without appropriate time to understand impacts and plan successful transitions. Instructors will have no choice but to continue using the canceled technologies or select alternatives, leading to increased duplication and costs for students. Student-pay subscriptions are a higher cost per license than a site agreement and present cybersecurity, privacy, and accessibility compliance risks.

The recommendations provide an opportunity to address challenges in the EdTech ecosystem in a planned and methodical way, while implementing a framework that will prevent the same issues from occurring in the future.

Jurisdictional Information

As outlined in the council's [Terms and Reference](#), Senate Graduate Council is empowered to make recommendation and approvals on behalf of Senate for a variety of matters:

- Receive for information and make recommendation to Senate as appropriate with respect to governance, regulations, policies, and matters relating to graduate education and Studies at the University.

Governance Pathway

Deans Council: May 28, 2025

Graduate Student Relations Committee: October 7, 2025

Undergraduate Student Relations Committee: October 8, 2025

Graduate Operations Committee: October 21, 2025

Undergraduate Student Relations Committee: October 23, 2025

Graduate Student Relations Committee: November 4, 2025

Undergraduate Student Relations Committee: November 5, 2025

GSA Council: December 11, 2025

WUSA Academic Affairs Advisory: January 16, 2026

Senate Undergraduate Council: April 7, 2026

Prospective:

Senate Graduate Council: April 16, 2026

Deans Council: Apr 22, 2026

² Includes Piazza, PebblePad, LEARN, Bongo, Mobius, Turnitin, iThenticate, Crowdmark, Akindi, Vevox, peerScholar, iClicker, Zoom, and LinkedIn Learning.

Graduate Student Relations Committee: May 5, 2026

Undergraduate Student Relations Committee: May 13, 2026

Board of Governors: TBD

Documentation Provided

Temporary Protocol Approved by the Provost

The temporary protocol is an adaptation of the process used during the pandemic to grant instructor exemptions from the guideline limiting the amount students can be required to pay for educational materials used in course assessments.

The following relevant resources are, or will be, available to instructors, staff and students:

- *A master list of known EdTech used across campus will be created, published and maintained. It will indicate if non-centrally supported software is "approved" for use (see footnote) or "waiting for assessment". As the team continues to analyze the list, duplicates will also be flagged and prioritized for assessment*
- *The [EdTech hub](#) website currently includes*
 - *A [support page](#) for instructors to find central support resources*
 - *Centrally supported visual [tool diagram](#) and [tool guides](#)*
 - *[Guidelines for LEARN integrations](#)*
 - *[EdTech governance and guiding principles](#)*
- *University [guidelines for fees related to 3rd party resources for academic assessment](#)*

The temporary protocol will be used when

- *an instructor wants to use a technology that is not on the master list or centrally supported; or*
- *when there is contention towards removing a duplicate or unsafe technology prioritized through the EdTech 2.0 project or on the master list. While the team works through EdTech assessments on the master list, instructors can continue using software that is "waiting for assessment".*

Temporary protocol:

1. **Submission:** *Instructor submits an exception request form that will include but not be limited to the pedagogical requirement, explanation why a central tool will not work, and date of central tool assessment. Requests can be submitted when:*
 - 1.1. *Requesting to use a tool that is not centrally supported and not on the master list*
 - 1.2. *The instructor does not agree with an EdTech 2.0 recommendation to transition from duplicated or unsafe technology*
2. **Assessment and Decision:** *A small committee comprised of the AVPA (senior leader), UG/Grad student, and the relevant teaching fellow (non-biased pedagogical perspective) assesses the request. The committee may consult with ITMS/ITSU about central tools, as well as others such as associate deans, deans, chairs, etc. as needed.*

- 2.1. *The committee provides a unanimous decision whether the request is "approved pending IRA/PIA"³ and moves to step 2(b), or otherwise "not approved" and moves to step 3*
- 2.2. *If the request is approved pending an IRA/PIA, ITMS will assist the instructor to initiate the IRA/PIA process. The instructor will be accountable for knowing how the unsupported tool works and acquiring required information from the vendor*
3. **Notification:** *Committee notifies instructor and ITMS of final decision and reasoning*
 - 3.1. *ITMS updates the master list*

³ Approved pending IRA/PIA equates to pedagogical requirement cannot be appropriately met with a centrally supported tool.

For Discussion**Open Session**

To: Senate Graduate Council

From: Whitney Barrett
Ombudsperson

Date of Meeting: April 16, 2026

Agenda Item: **8. Relationship between Supervisors and Graduate Students**

Summary

This discussion will focus on patterns related to graduate student and supervisor relationships identified through cases brought to the Office of the Ombudsperson and reflected in the first Annual Report. The discussion will center on supervision as a recurring area of concern for graduate students, including matters related to communication, expectations, degree progression, and relational challenges.

The discussion will not address individual cases, specific supervisors, or proposed changes to policy or practice. It will draw on aggregated and anonymized data already presented in the Annual Report to highlight common themes observed across faculties and programs that shape how graduate students experience fairness within supervisory relationships. Attention will be given to how uncertainty around expectations, roles, authority, and available pathways can develop over time and influence students' academic progression and decision making.

This item is intended to support informed discussion rather than recommendation or decision making.

Rationale

Supervision was the most frequently raised concern among graduate student visitors to the Office of the Ombudsperson, and graduate students engaged with the Office at a rate that was disproportionately higher than their representation in the overall student population, as reported in the Office's first Annual Report. This item does not introduce new data. Rather, it creates space for focused discussion informed by patterns already identified and reported.

Given the central role of supervision in graduate education and its consistent presence across graduate student cases, this item is being brought forward to Graduate Council to support reflection and discussion grounded in existing evidence. Graduate Council has already reviewed the Annual Report and heard a general presentation on the work of the Office. This discussion provides an opportunity to consider one key area in greater depth without revisiting the report as a whole.

Consistent with the Ombudsperson's role, this item is presented for discussion only. The purpose is to share observed patterns drawn from the Annual Report and to support

reflection on how supervisory relationships are experienced by graduate students in practice, rather than to advance recommendations, introduce new findings, or seek decisions.

Documentation Provided

- McMaster Expectations Template:
https://gs.mcmaster.ca/app/uploads/2023/04/Grad-Studies-Expectation-Tool-fillable-final_Dec-2023.pdf
- Office of the Ombudsperson Annual Report:
<https://uwaterloo.ca/ombudsperson/sites/default/files/uploads/documents/annual-report-2025-web.pdf>

GETTING THE SUPERVISORY RELATIONSHIP OFF TO A GOOD START



A Template to Address Expectations for Graduate Students and their Supervisors

The School of Graduate Studies encourages open communication between the Supervisor and Student and has created this document to facilitate a discussion of expectations and responsibilities to help avoid conflicts. This document is designed to be completed by both the Student and the Supervisor at the beginning of the Student's graduate program. It can be jointly revised at any time, particularly when there are relevant changes to the Student's program, such as a new industry partnership or a change in scope, direction, or project funding.

NOTES

- This document was modeled after policies and guidelines in use at other Canadian universities and based upon McMaster's Graduate Calendar, particularly section 2.7.1, Graduate Work Supervision Guidelines for Faculty and Students, which provides an important framework for understanding Supervisor and Student expectations and responsibilities.
- If the Student is co-supervised, all three parties should complete this document.

For further resources, visit the School of Graduate Studies website: <https://gs.mcmaster.ca/current-students/resources/graduate-supervision/>

Meetings and Communication

There are many types of meetings that Students and Supervisors might attend together (e.g., one-on-one, group, committee, etc.) and various modes of communication they might utilize (e.g., email, phone, face-to-face). This section refers specifically to one-on-one meetings focused on the Student's research and/or progress within their graduate program.

The Supervisor and Student will arrange and attend regular meetings.

- The frequency and format of the meetings may vary, but typically meetings will be held:

(e.g., once a week, twice a month, etc.)

- Generally, the length of meetings can be expected to be approximately _____ minutes / hours.
- The Student / Supervisor / both will be primarily responsible for recording notes (aka. meeting minutes) on topics and timelines discussed, as well as feedback given, at each meeting.¹

Typically, the Supervisor's preferred method of regular communication is:

(e.g., face-to-face, email, etc.)

- The Student can typically expect a response from the Supervisor within:

_____ (time period, e.g., 1 week) **for** _____ (type of work, e.g., emailed question)

_____ (time period, e.g., 2 weeks) **for** _____ (type of work, e.g., feedback on findings)

_____ (time period, e.g., 1 month) **for** _____ (type of work, e.g., edits to manuscript)

- On average, the Supervisor is in their office, lab, or otherwise available to the Student

daily / weekly / monthly / by appointment / other: _____



Time Management, Employment, and Training

Please use the SPECIFIC REQUIREMENTS OF THE GRADUATE STUDENT chart to discuss and record program-specific (and other) expectations, with respective timelines, for the Student.

Although the relationship between a Supervisor and Student is not an employment relationship, Supervisors may have expectations in regard to the average number of hours per week that the Student should be in the office/lab/on campus etc., in order to complete his/her research within the required timelines, keeping in mind that these expectations may differ at different times throughout the program. Similarly, Students may have commitments, including teaching duties, which may impact their schedule. Bearing this in mind:

- What are the expectations of the Supervisor and the Student regarding the Student's office/lab/on campus attendance?

- How will vacation time for the Student be negotiated?²

- If the Student does not complete his/her PhD within 4 years, or their Masters within _____ year(s), **funding will** / **will not** / **could potentially** be provided.

- What efforts will the Supervisor and Student make to ensure "on time" program completion?

Does the Student have a contract to hold Teaching/Research Assistantships during the course of their program?

Yes / **No** / **Unsure**

Supervisory Relationship

FOR THE SUPERVISOR:

How would you describe your typical supervisory style?

(e.g., hands-on /hands-off, mentor/manager/colleague/etc.)

FOR THE STUDENT:

How would you describe your learning style?

(e.g., mostly independent, does well with structure, needs feedback/encouragement etc.)

If the student is paid as a Research Assistant (RA) for the Supervisor, how might this arrangement affect the Student's own research program *(e.g., competing RA vs. program demands on Student's time, authorship on publications, etc.)*

Additional opportunities for the Student to teach/supervise others might include:³

Are there voluntary courses, certificates, or other training opportunities the Student may wish to take?



Supervisory Committee

Who will set up the Supervisory Committee?

What time of year is the annual Supervisory Committee meeting likely to occur?

What should the Student do to prepare for meetings?

Other expectations of the Supervisor and Student in regard to forming and interacting with the Student's supervisory committee are:

Health and Safety

If relevant, where would I find information on health and safety policies and procedures?

(e.g., name of the appointed safety officer, operating procedures, etc.).

Conferences and Scholarships

Are there opportunities for the Student to attend conferences and/or to present scholarly work?

Yes / **No** / **It depends**. If so,

- who will be primarily responsible for searching out such opportunities?
 Student / **Supervisor** / **both**
- the Student **will receive** / **will not receive** / **will apply to receive** funding from the Supervisor and/or department for travel related to conference presentations.

Is the Student planning or required to apply for scholarships appropriate to his/her program of study?

Yes / **No** / **Maybe**. If so, what role if any might the Supervisor play in the application process?

Research Leave (i.e., Sabbatical)

The Supervisor **does** / **does not** plan to take a research leave during the Student's study period. If so,

- The research leave is expected to start _____ (date), and last approximately _____ (length).
- How will the Supervisor ensure adequate supervision of the Student?



Authorship

As early as possible in the program, and after having requested input from those affected as appropriate, the authorship order for anticipated journal articles will be determined by the Supervisor assuming he/she is the lead researcher. The Student is normally first author on an article based on the Student's thesis, particularly when it forms part of a Sandwich Thesis.⁴ The Supervisor will communicate determinations around authorship to the Student in writing. A Student who has concerns about authorship issues may seek the assistance of the program Chair, and, if necessary, avail her/himself of dispute resolution processes within the University.

- Authorship order will be determined based on the following criteria/process:

- Will the Student have an opportunity to obtain first author publications?
 Yes / **No** / **It depends**. Please elaborate if necessary:

- Is the Student considering doing a Sandwich Thesis?
 Yes / **No** / **It depends**. Please elaborate if necessary:

Publication

Who will be primarily responsible for preparing and submitting for publication the results of research completed by the Student as part of the Student's degree requirements?

Supervisor / **Student** / **both**.

Is the Student required to obtain permission from the Supervisor prior to submitting an article for publication based on the Student's research?

Yes / **No** / **It depends**.

Is the Student's research funded by the one of the Tri-Agencies (i.e., NSERC, SSHRC, CIHR)?

Yes / **No** / **Unsure**.

If so, what are the relevant publication restrictions (if any) and implications for the Student?

(E.g., must publish in Open Access Journals etc.)

Research Ethics

Will the Student be conducting research on human or non-human animals (including human tissues or records)?

Yes / **No** / **Uncertain**.

If so, is the Student required to complete an ethics approval form before data collection can begin?

Yes / **No** / **It depends**.

Please elaborate for the Student if necessary



Ownership Rights and Intellectual Property

Will the Student be involved in research governed by an Industry Sponsored Research Agreement? ⁵

Yes / No / It depends. If so,

- Where does funding come from?

- Are there relevant publication restrictions on the Student's research such as a Non-Disclosure Agreement (NDA)? ⁶

Yes / No / Unsure.

- Bearing in mind the graduate thesis regulation that states: *No research for the Master's or PhD degrees at McMaster may be secret or classified,* ⁷ how might this agreement impact the student's thesis (e.g., right of Industry partner to review Student's thesis, or other proposed disclosure, prior to any public presentation of results; embargoed/withheld thesis)? ⁸

Note: If concerns exist regarding this topic, consultation with the School of Graduate Studies (SGS) and the McMaster Industry Liaison Office (MILO) is advised.

Is there a possibility that an invention arising from the Student's research could be patentable? Yes / No / It depends.

Is the Student and/or Supervisor interested in commercializing the results of the Student's research now or in the future?

Yes / No / It depends.

Please elaborate for the Student on any other relevant information about the following:

- Copyrights and trademark protection:

- Commercialization grants:

- Confidentiality, inter-institutional, and license agreements:



Student's Academic and Professional Development

The Student's **immediate goals** include:

- Academic goals:

- Professional/career goals:

The Student's **long-term goals** include:

- Academic goals:

- Professional/career goals:

Which of the Student's goals does the Supervisor feel that he/she could help the Student achieve?
How might the Supervisor help?

Additional Comments

What to do with this form?

It is recommended and encouraged that both the student and supervisor keep a copy of this form in their records. The discussion recorded on this form can be reviewed by both parties and revised together again in the future if deemed appropriate.

Endnotes:

1. Recording “meeting minutes,” and ideally emailing them to the attendees after the meeting, is an effective way to help ensure the message(s) communicated is/are mutually understood.
2. The General Regulation of the Graduate School for Vacations (section 2.5.8 of the School of Graduate Studies Calendar) states that: Full-time graduate students are expected to be on campus for all three terms of the university year, as specified in Section 1.3. In addition to statutory holidays (see Sessional Dates) and the weeklong Holiday closing of the University from late December until early January, normal vacation entitlement is two weeks of vacation during the year, to be scheduled by mutual agreement with the research supervisor and the employment supervisor. Exception to this allotment requires approval from the supervisory committee.
3. MacPherson Institute for Leadership, Innovation and Excellence in Teaching offers Teaching and Learning Certificates of Completion for graduate students and postdoctoral fellows. **For more information, visit MacPherson Institute: <https://mi.mcmaster.ca>**.
4. Students may consider completing a Sandwich Thesis if some of the research undertaken expressly for the degree has previously been published or prepared by the Student as one or more journal articles, or parts of books. To determine eligibility for completing a Sandwich Thesis, the Student should discuss and obtain permission from the Supervisory Committee.
5. If you are working on an industry-sponsored project, whether it is funded by an industry partner alone or co-funded by a funding agency, there will be an agreement between the University and the industry partner that covers ownership of the project results, confidentiality considerations and will detail how publications arising from the results must be handled. It is important for the Supervisor and Student to discuss the agreement to determine if there are any obligations that could impact the Student’s thesis or use of the results. **More information is available through the McMaster Industry Liaison Office (MILO): milo.mcmaster.ca**. Relevant McMaster Policies (as of March 2016) include: Ownership of Student Work; Joint Intellectual Property Policy
6. A Non-Disclosure Agreement (NDA) is an agreement that sets out the ways in which your information (e.g., data/results) can be used by the person or organization that you are providing it to (and the kind of protection that it should receive). **For more information, visit the McMaster Industry Liaison Office (MILO) with <https://research.mcmaster.ca>**.
7. The General Regulation of the Graduate School for Theses (section 3.2 of the School of Graduate Studies Calendar) states that: “No research for the Master’s or PhD degrees at McMaster may be secret or classified. All e-theses will be available to readers through MacSphere”.
8. “Embargoed” (i.e., withheld) status of one’s thesis is intended to protect rights for immediate commercial publication, to obtain a patent which may rise from the research, or as a result of any contract made with a third party. The student may request a postponement of digital publication for up to one year at the time of **thesis submission to MacSphere: <https://macsphere.mcmaster.ca>** – all such requests are automatically granted. No delay of publication more than 2 years from the initial submission will be permitted. Please note that you and your supervisor must both sign the delay of publication area on your Final Thesis Submission Sheet. For more information, consult the School of Graduate Studies Calendar.

Specific requirements of the graduate student

Name: _____ Date: _____

The following are program (or other) requirements specific to the Student with accompanying timelines and/or dates for completion (suggested items: progress reports, committee meetings, comprehensive exams, technical or safety training, etc.).

ITEM(s)	FREQUENCY (e.g., once a year)	DUE DATE(S)/ TIMELINE (if applicable)	NOTES/ LINKS/ RELEVANT RESOURCES
SGS #101: <i>Academic Research Integrity and Ethics</i>	One time only (or until "Pass")	Within first month of first term of study	See the School of Graduate Studies Calendar for current course information
SGS #201: <i>Accessibility for Ontarians with Disabilities Act (AODA)</i>	One time only (or until "Pass")	Within first month of first term of study	See the School of Graduate Studies Calendar for current course information

UNIVERSITY OF WATERLOO OFFICE OF THE OMBUDSPERSON



ANNUAL
REPORT 2025

TERRITORIAL ACKNOWLEDGMENT

The Office of the Ombudsperson at the University of Waterloo acknowledges that our work takes place on the traditional territory of the Attawandaron, Anishinaabeg, and Haudenosaunee peoples. Our office is situated on the Haldimand Tract, land granted to the Six Nations that includes six miles on each side of the Grand River.

As an office committed to fairness in practice, policy, and procedure, we recognize that fairness also requires reflection on the histories and ongoing impacts of colonization. We honour the relationships that Indigenous peoples have with this land and acknowledge our responsibility to contribute to reconciliation through respectful dialogue, learning, and action.

We are grateful to the Office of Indigenous Relations for guiding the University's efforts in reconciliation, and we commit to engaging with these efforts in ways that uphold relational, procedural, and substantive fairness.

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VISITOR FEEDBACK

"Our conversation was one of the most meaningful experiences I've had as a student navigating difficult academic circumstances."

"I appreciate the service that the Ombuds Office provides in building a more fair University of Waterloo for tomorrow."

"Having an ombudsperson as an undergraduate student feels like one of the best resources on campus one could ask for."

"I appreciated [their] advice tremendously and was immensely satisfied."

FROM THE OMBUDSPERSON

To the University of Waterloo Community:

I am pleased to share the inaugural annual report of the Office of the Ombudsperson for the period January 1 to August 31, 2025. This report fulfills the commitment outlined in the Memorandum of Understanding between the University, WUSA, and GSA-UW, and reflects our shared dedication to fairness.

This year marked the opening of a new door at Waterloo -- a door to enhanced clarity and fairness. The creation of the Office was not a procedural decision, but a principled one, shaped by student advocacy and a recognition that navigating university systems can be complex and overwhelming.

I joined the University shortly before the Office officially launched, bringing with me over 15 years of experience in academia through various roles at Western University, culminating in my position as Acting Ombudsperson. That experience deepened my understanding of how fairness is practiced in higher education and the systemic challenges students face. At Waterloo, I have built on that foundation to establish an impartial, independent, and confidential resource for students, one that empowers them to navigate processes with confidence and clarity.

From building services and resources to fostering trust across campus, this first year was about laying a strong foundation to support fairness in practice, policy, and procedure. Through consultations, case reviews, and systemic observations, we learned that fairness depends on more than policies; it depends on clarity, communication, and respect. These insights will guide our work in the year ahead.

The Ombuds Office isn't the right or wrong door; it's simply a door to understanding. Behind that door is a commitment to impartiality, independence, and confidentiality. Our role is to listen without judgment, clarify policies and procedures, and help students explore options so they can make informed decisions. We do not advocate for individuals or the institution; we advocate for fairness as part of our collective practice, and through policy and procedure.

The door is open. Let's walk through it together.

Whitney Barrett
Whitney Barrett
Ombudsperson

ABOUT THE OFFICE

The Office of the Ombudsperson at the University of Waterloo was formally launched in January 2025, following years of sustained advocacy by student leaders from the Waterloo Undergraduate Student Association (WUSA), the Graduate Student Association (GSA-UW), and the Committee on Student Mental Health (CoSMH). These groups identified the absence of an ombudsperson as a significant gap in the University's fairness infrastructure and worked collaboratively to establish a resource that would be impartial, independent, and student-centered.

The Office was created through a Memorandum of Understanding between the University, WUSA, and GSA-UW. Administratively, the Office sits within the portfolio of the University Secretary, who reports to the Chair of the Board of Governors. The Office is jointly funded by the University and the student associations. This shared funding model supports the Office's operational and financial independence from all signatories. Located on the third floor of the Student Life Centre, the Office serves all students, undergraduate and graduate, by promoting fairness across academic and non academic areas.



The Office is led by **Whitney Barrett**, the inaugural **Ombudsperson**. Whitney joined the University of Waterloo in late 2024 to establish the Office and bring its mandate to life. With a background in higher education, conflict resolution, and policy analysis, Whitney brings a systems-focused lens to fairness and is committed to empowering students to navigate university processes with confidence and clarity.

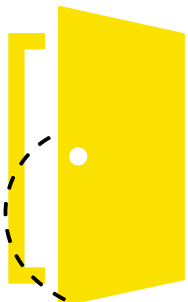


In July 2025, the Office expanded to include **Sam Vandekerckhove**, **Assistant Ombudsperson**. Sam supports the day-to-day operations of the Office, including intake, case management, and student consultations. He also contributes to outreach, education, and data tracking—key functions that enable the Office to identify systemic trends and support institutional improvement.

Together, the Ombudsperson and Assistant Ombudsperson provide confidential, impartial guidance to students seeking to understand their rights, responsibilities, and options. The Office does not advocate for individuals or the institution, but rather advocates for fairness in practice, policy, and procedure.

HOW WE WORK

Every student who visits the Office of the Ombudsperson begins with a simple step: opening the door. What happens next is a process designed to provide clarity, empower decision-making, and uphold fairness.



Step 1

Intake – Opening the Door

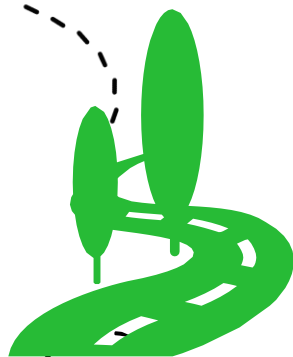
When a student reaches out, whether in person, virtually, or by email, the first priority is creating a confidential and impartial space. This is where we listen, without judgment, and begin to understand the concern.



Step 2

Consultation – Clarifying the Issue

Through conversation, we help students articulate their concern and identify the policies, procedures, or practices that may apply. This step is about understanding, not just what happened, but what matters most to the student.



Step 3

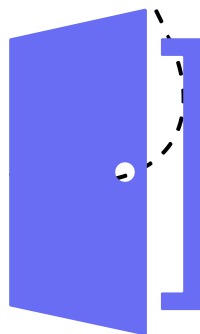
Exploring Options – Finding the Path Forward

Once the issue is clear, we outline possible pathways. These may include informal resolution strategies, referrals to other campus resources, or guidance on formal processes. Our role is not to decide for students, but to equip them with the information and confidence to act.

Step 4

Closure or Referral – Moving Forward

Every interaction concludes with clarity. Whether the concern is resolved, referred, or escalated through formal channels, students leave knowing their options and next steps.



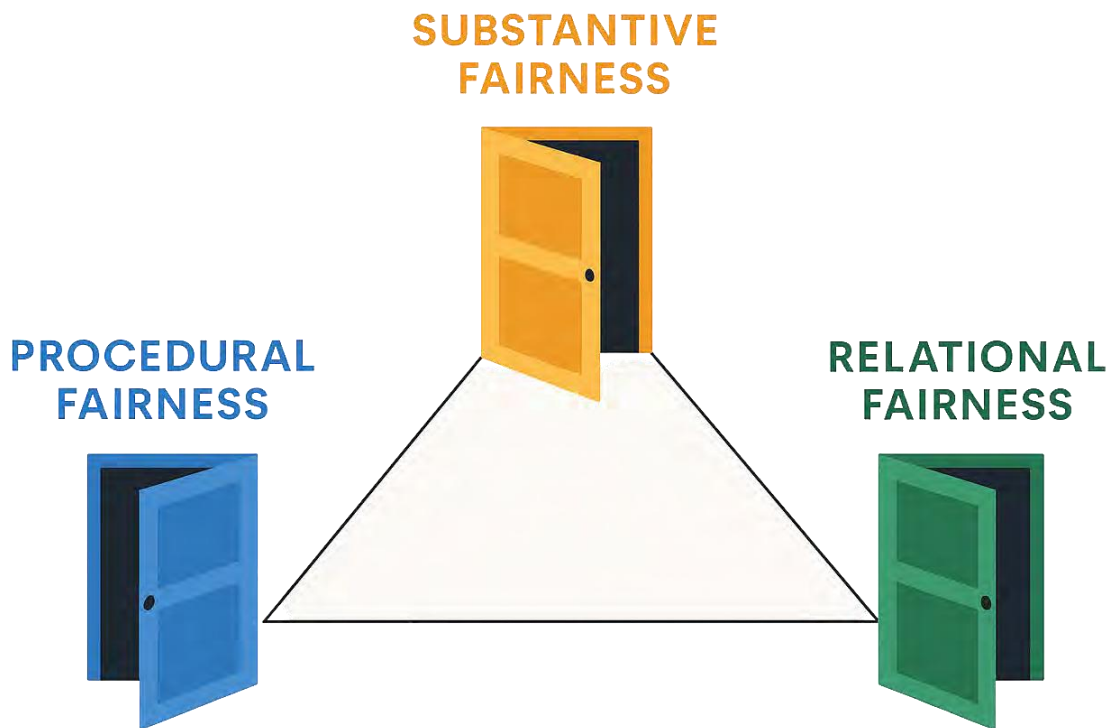
Looking Beyond the Door

While each case is unique, patterns matter. We track themes and trends to identify systemic issues where fairness may be faltering.

These insights inform recommendations for institutional improvement.

FAIRNESS: THREE DIMENSIONS, ONE TRIANGLE

Fairness is at the heart of every interaction and every recommendation we make. Ombuds practice across Canada is grounded in the Fairness Triangle, a framework that helps us assess whether decisions and processes meet three essential dimensions of fairness:



Procedural Fairness

How the decision was made. Were the steps clear, consistent, and transparent? Did the student have a meaningful opportunity to be heard?

Substantive Fairness

What decision was made. Was the outcome reasonable and based on relevant information? Does it align with policy and context?

Relational Fairness

How people were treated. Was the student treated with respect and dignity throughout the process? Was communication honest and timely?

These dimensions are interconnected, like the sides of a triangle, and together they form the foundation of fairness in university decision-making. When one side is missing, fairness falters.

The Fairness Triangle framework was developed by Ombudsman Saskatchewan (see What is Fairness?, January 2019) and is based on the concept of the Satisfaction Triangle in Moore, Christopher (2003). *The Mediation Process: Practical Strategies for Resolving Conflict* (3rd ed.). San Francisco: Jossey-Bass Publishers.

COMMUNITY AND CONNECTIONS

Building trust and awareness was a priority in the first year. The Ombuds Office is most effective when students know it exists and understand its role. To that end, I focused on outreach that meets students where they are, both physically and virtually.



Campus Connections

The Office increased visibility through monthly visits to Stratford and Cambridge campuses, ensuring students at satellite locations had direct access to services. These visits were more than symbolic. They provided opportunities to understand unique challenges and build trust in person.

Early in the year, I conducted a leadership roadshow, meeting with senior academic and administrative leaders to introduce the Ombuds Office, clarify its mandate, and explain how it complements, not replaces, existing services. These conversations were essential for building institutional understanding and reinforcing the Office's impartial role.

The Office also connected with student-facing staff across campus through presentations and service guides, creating a shared understanding of the Ombuds role and ensuring students receive accurate information no matter where they seek help.

Collaborative Relationships

Collaboration is at the heart of building a fairness infrastructure. While the Ombuds Office does not participate in committees or working groups, I actively connect with offices across campus to strengthen clarity and coordination for students. These relationships include EDI-R, SVPRO, AccessAbility Services, WUSA Advocacy, and the Graduate Student Association. Connections ranged from supporting complex cases to sharing knowledge about mandates and exploring opportunities for outreach and education, all while maintaining impartiality.

These engagements were intentional and relationship-driven. For example, connecting with AccessAbility Services provided insight into accommodation processes, while discussions with SVPRO clarified pathways for students navigating sensitive concerns. Regular touchpoints with WUSA and GSA ensured student priorities remained visible and informed systemic observations.



Policy Consultation

Fairness is shaped not only by how policies are applied but by how they are written. Throughout the year, parties preparing updates to existing policies, guidelines, and recommendations invited me to review proposed changes. These consultations were an opportunity to bring an impartial lens to policy development, ensuring clarity, accessibility, and fairness were considered from the outset.

My feedback focused on identifying areas where language or structure could create confusion for students, as well as highlighting potential limitations or unintended consequences. In some cases, I suggested actionable revisions to strengthen transparency and reduce ambiguity. In others, I raised questions about how proposed changes might intersect with existing processes or affect students navigating complex circumstances.

These engagements were collaborative and constructive. Feedback was welcomed and often incorporated, reinforcing the shared commitment to fairness across the institution. By contributing to these conversations, the Ombuds Office helped shape policies that not only meet procedural requirements but also support a student experience grounded in clarity and respect.



Digital Engagement

Digital engagement was a cornerstone of building awareness. The Office expanded its website with plain-language resources, including guides that break down complex policies into clear, actionable steps. A monthly blog series launched to share insights on fairness, systemic trends, and practical tips for navigating university processes.

To support staff and faculty, the Office developed digital resources guides and presentation materials, ensuring consistent messaging about the Ombuds role across campus.

These resources were complemented by targeted outreach through email to relevant stakeholders, reinforcing the message that fairness is accessible and impartial.

AT A GLANCE

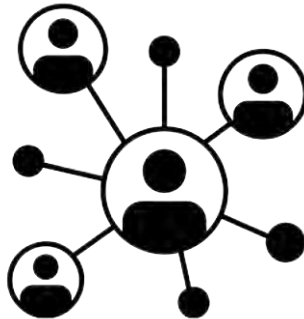
The data presented reflects activities during the inaugural reporting year (September 1 – August 31). As the Office opened in January, case-related data covers January through August 31.



55

CASES RECEIVED

From January to August, the Office handled **55 cases**, providing impartial guidance and support to students navigating complex challenges.



96%

STUDENT VISITORS

The vast majority of visitors were students, reflecting the Office's primary role in supporting the student experience.



8.28

AVERAGE CONNECTIONS PER CASE

On average, each case involved **8.28 interactions**, showing the level of engagement needed to address concerns.

MILESTONES

January



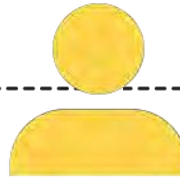
Office opened

February - March



Connected with Senior Leadership across campus

July



Welcomed Assistant Ombudsperson

August



Website expansion and Monthly Blog launched

HOW WE CONNECTED

Email
80%

Virtual
13%

In Person
7%



TOP 3 CONCERNS

1. Supervision
2. Academic Progression
3. Accommodations

STORIES FROM THE THRESHOLD

Every student who walks through the Ombuds Office door brings a unique story, but beneath those individual experiences, common threads emerge. Over the past year, the Ombuds Office observed a recurring pattern in student concerns: fairness challenges often arise not from the absence of policy, but from the complexity of navigating it. These stories show what happens when processes intersect, expectations diverge, and communication falters and what we can learn from those moments.

Complexity Without Coordination

Fairness becomes hardest to achieve when complexity clouds the path. Some students arrive with concerns that span multiple academic terms, policies, and processes. Health challenges intersect with grading disputes, petitions collide with appeals, and informal agreements replace formal procedures. In these situations, fairness falters not because policies are absent, but because navigating them feels overwhelming.

One student's experience illustrates this vividly: after multiple health-related absences, they submitted documentation directly to instructors rather than through formal channels. Without an academic consideration plan or accommodations in place, decisions became fragmented and inconsistent. Informal agreements with senior administrators added further ambiguity. While the University acted within policy, the absence of coordinated procedures left the student feeling exhausted and uncertain.

This case reminds us that complex situations need structured navigation support. Informal pathways increase risk and erode trust.



Expectations vs. Reality

Fairness can feel distant when expectations and processes collide. Students sometimes expect advocacy or outcome changes, but the Ombuds role is different: it is about clarity, not intervention. When this distinction is not well understood, frustration may be directed at the process, even when the concern is really with the result.



For example, a student who failed a required course pursued multiple levels of appeal, alleging bias and a lack of transparency in academic decision-making. Each stage of the appeal followed established procedures, and the decision makers provided reasons that met procedural fairness standards. Despite this, the academic decision was upheld.

Several elements of the process were experienced by the student as unsatisfactory, including the use of virtual hearings, which the student felt limited their ability to communicate their perspective effectively. These concerns were raised as further evidence of unfairness. However, a review of the process confirmed that the procedures themselves were applied consistently and as intended.

As the matter progressed, it became apparent that the student's primary expectation was for the decision to be overturned. The student also believed the Ombudsperson could intervene to change the outcome. Clarifying the Ombuds mandate, particularly the Office's lack of authority to reverse academic decisions, was a key part of the engagement.

In this case, the student's frustration was rooted largely in disappointment with the outcome rather than procedural deficiencies. The student's perception of unfairness reflected a mismatch between expectations of advocacy and the Ombuds role of explaining process, scope, and available options.

Fairness is not a guarantee of agreement; it is a commitment to process, respect, and reasonableness. Helping students understand this distinction, particularly when outcomes are unfavorable, is a central part of the Office's work.



Shared Accountability

Challenges brought to the Ombuds Office are rarely one-sided. Students and institutions share responsibility for engaging academic processes in ways that support fair resolution. When timing, understanding, or access break down, the sense of fairness can be strained even when policies are applied appropriately.

In one case, a student petitioned to amend their academic record after graduation, citing cultural stigma as a barrier to seeking accommodations earlier in their program.

Although the University applied its policies correctly, the delayed engagement significantly limited the options available for remedy. By the time the concern was raised, institutional flexibility was constrained.

This case underscores the shared accountability at the heart of fairness. Students must engage formal processes in a timely way, and institutions must ensure those processes are clear and accessible. Fairness depends not only on policy compliance, but on raising concerns before options for resolution are exhausted.

Systemic Signals

These stories point to opportunities for improvement across the University's fairness infrastructure:

Navigation Support

Students managing multiple, overlapping challenges often struggle to identify the right process or resource. A coordinated approach for highly complex cases could reduce fragmentation and improve clarity.

Proactive Communication

Clear, timely updates about decisions and processes can prevent misunderstandings and reduce stress. Strengthening communication practices is key to relational fairness.

Cross-Unit Coordination

When health concerns, academic decisions, and policy requirements intersect, gaps in coordination can compound complexity. Building stronger connections between units can make processes more seamless for students.

Fairness is not about bending rules. It's about making them work for real people in real situations. These systemic signals remind us that behind every policy is a person, and behind every decision is a process that must be clear, consistent, and respectful.

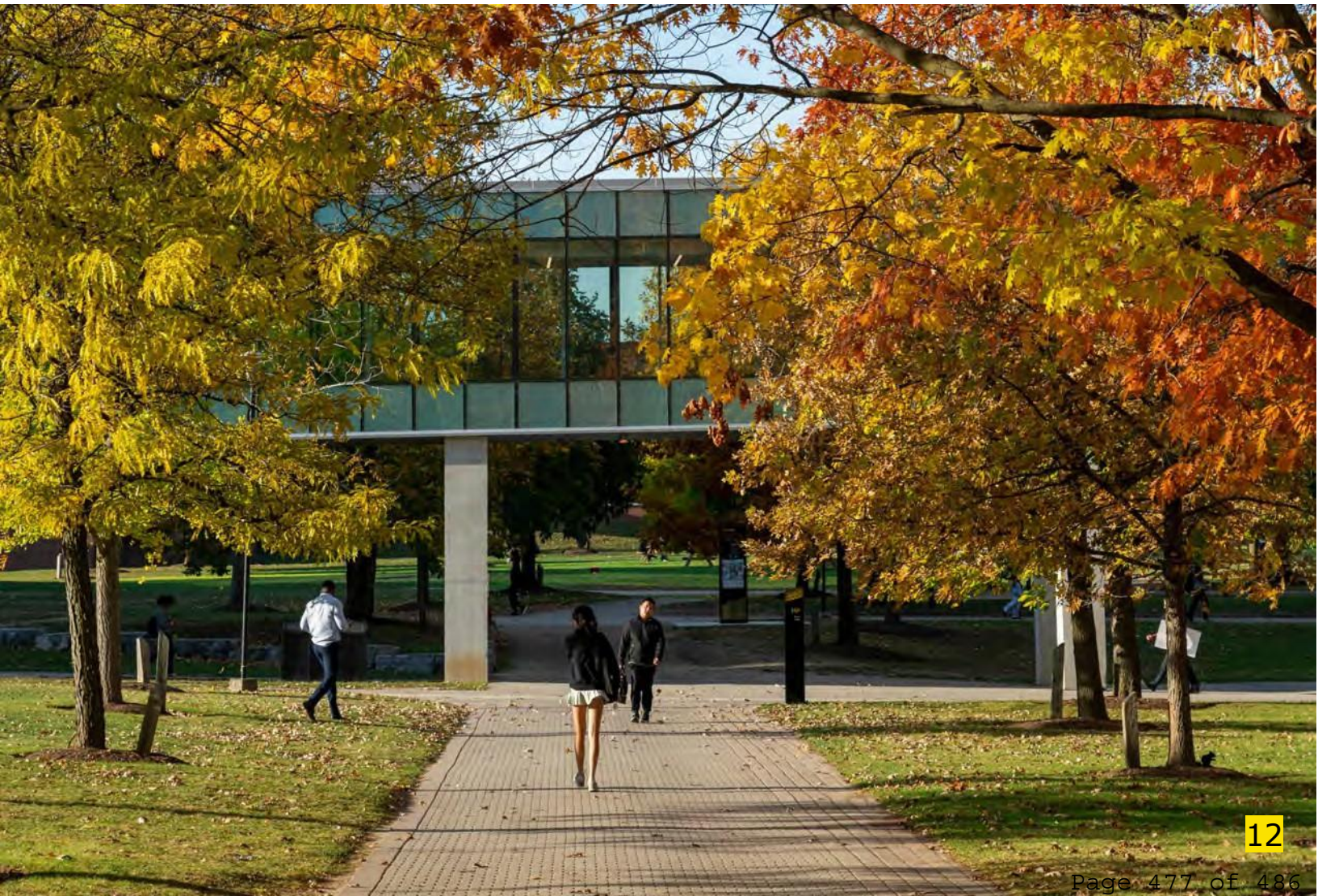


OBSERVATIONS

Fairness rarely turns on a single decision. More often, it emerges from how students experience outcomes, timing, and the clarity of the processes surrounding them. In many cases this year, concerns arose not because procedures were flawed, but because outcomes did not change in the way students expected.

A recurring theme was misalignment between student expectations and institutional roles. Some students approached appeal or review processes (and the Ombuds Office) anticipating advocacy or intervention to overturn decisions. When outcomes were upheld despite procedurally sound processes, frustration was sometimes directed at the system itself. These cases highlighted how perceptions of unfairness are often shaped by expectations of outcome, rather than by deficiencies in process.

Timing also emerged as a critical fairness factor. Students who engaged formal processes late, whether due to uncertainty, stigma, or fear of disclosure, often encountered limited options for resolution. While students share responsibility for engaging processes in a timely way, institutions have a role in ensuring those processes are visible, understandable, and accessible early on. Across cases, fairness was most strained when expectations, timing, and clarity were out of alignment.

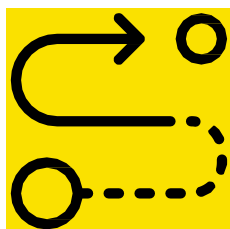


CONSIDERATIONS

While this inaugural report does not include formal recommendations, several considerations emerged from the cases reviewed and the patterns observed. These considerations are shared to support ongoing conversations about clarity, coordination, and fairness across the University:



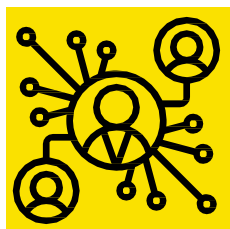
Navigating Complexity: Students navigating formal academic processes often encounter multiple steps, timelines, and decision makers. When concerns evolve over time or span more than one process, identifying the appropriate pathway can be challenging. Several cases reflected how complexity itself, rather than the absence of policy, can shape perceptions of fairness and contribute to delayed or fragmented engagement.



Setting Clear Expectations: In a number of cases, students entered formal processes expecting advocacy or outcome change, including from the Ombuds Office. When decisions were upheld following procedurally sound processes, frustration sometimes followed. These experiences underscore the importance of clear communication about roles, authority, and limits, particularly early in a process, to support shared understanding of what fairness does and does not entail.



Improving Communication: The experience of fairness is closely tied to how decisions are communicated. Even when policies are applied appropriately, unclear explanations, delayed updates, or limited context can make outcomes feel impersonal or rigid. Consistent, plain language communication about reasoning, timelines, and next steps supports both procedural and relational fairness.



Coordinating Across Units: Cases involving intersecting academic, health, and accommodation considerations highlighted the importance of coordination across units. When guidance or messaging is inconsistent, students may delay engaging formal steps or misunderstand the implications of timing. Clear alignment across related processes helps ensure students receive coherent information and understand their responsibilities within shared systems.

LOOKING AHEAD

One consistent area of concern highlighted this year is the care and support for students navigating highly complex situations. These cases often involve multiple policies, decision-makers, and support units, creating a landscape that can feel fragmented and overwhelming. When coordination is unclear, students experience delays, inconsistent information, and added stress at a time when they are already vulnerable.

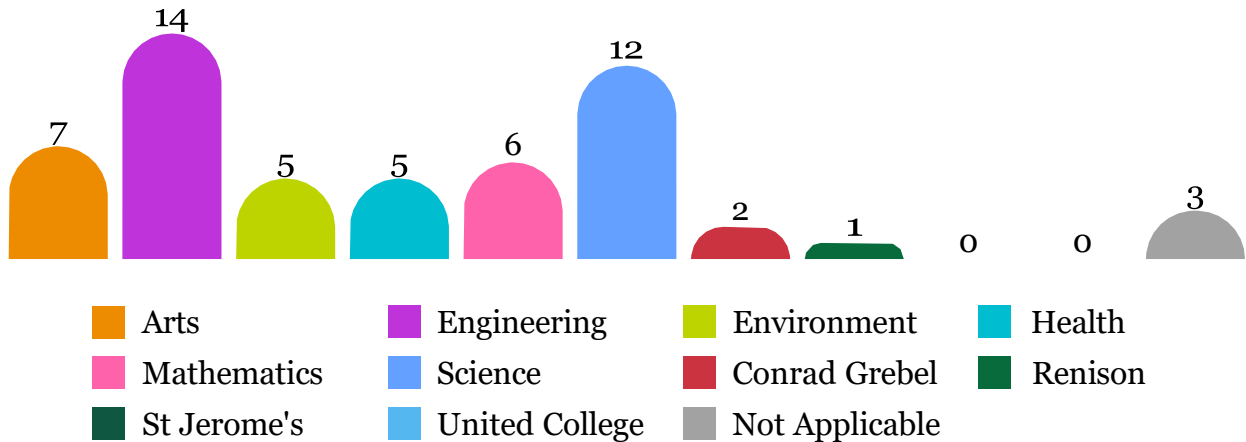
These cases reveal systemic gaps rather than isolated issues. They point to the need for stronger integration across academic and non-academic systems, clearer communication pathways, and proactive supports for students facing layered challenges.

In the coming year, I intend to explore this topic through a systemic review, with the goal of identifying structural improvements that enhance fairness and reduce barriers for students in the most challenging circumstances.

STATISTICS

This section provides a closer look at the case data collected during the first reporting year. Because the Office opened in January, the analysis reflects activity from January through August 31. The data is organized to show patterns by faculty, degree level, and category of concern, along with visitor demographics such as residency, gender, and indicators of academic risk. These insights help illustrate the types of issues students brought forward and highlight trends that will guide future priorities.

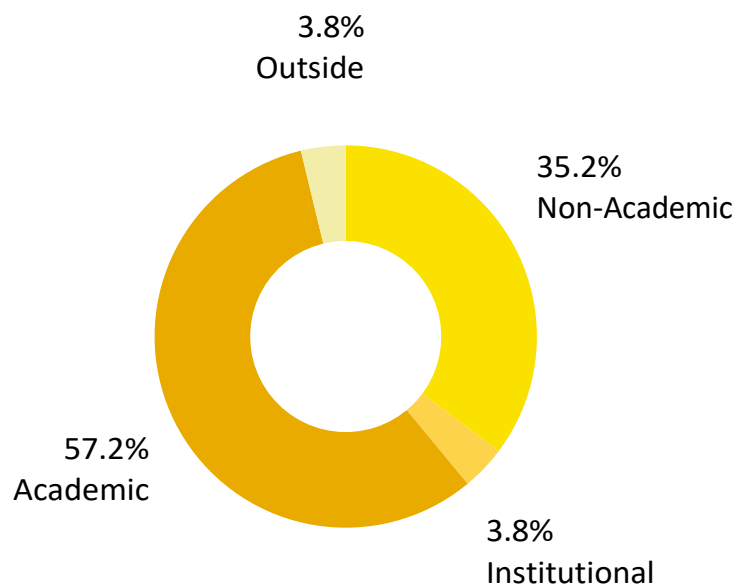
CASES



Engineering, Science, and Arts accounted for the highest number of visitors. The chart on the below illustrates the types of concerns raised: academic issues made up 57.2% of cases, non-academic concerns accounted for 35.5%, and a small proportion (3.8%) involved both institutional and outside jurisdiction matters.

CONCERNS

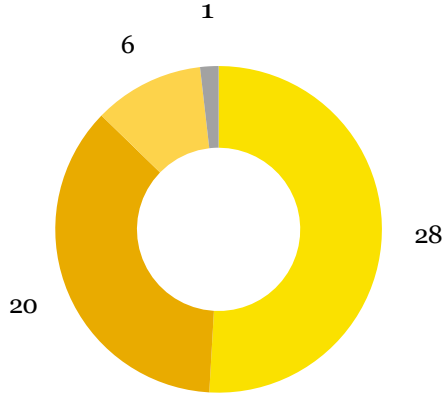
Academic concerns include issues such as supervision, progression, and accommodations; areas where students often navigate complex policies and decision-making processes. Non-academic concerns cover matters like ethical behavior, housing, and financial challenges, reflecting the broader student experience beyond academics. Cases involving both institutional and outside jurisdiction typically relate to situations where external factors intersect with university processes.



VISITORS

This page highlights who accessed the Office and how they connected. Most visitors were domestic students, with international students representing a smaller proportion. Gender distribution was balanced, and indicators of risk appeared in a subset of cases.

Visitors by Visitor Type

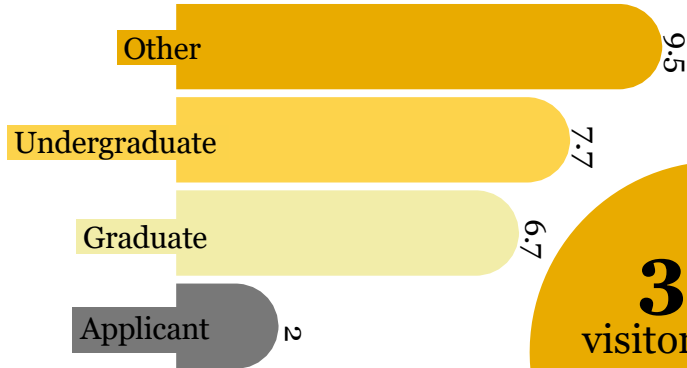


■ Undergraduate ■ Graduate
■ Other ■ Applicant



25% of visitors self-identified as being an international student.

Average Connections by Visitor Type

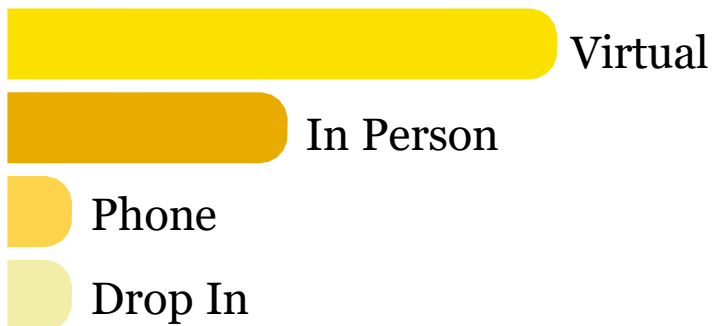
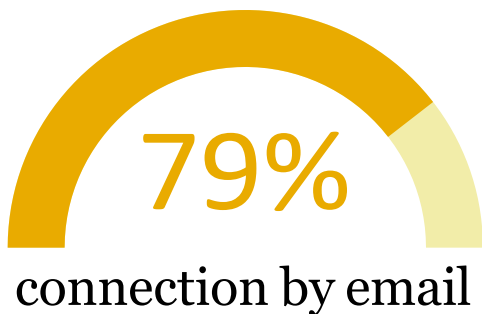


34% of visitors shared they have a disability, experienced mental health concerns or trauma.

36% visitors referred by staff, faculty, or friends

CONNECTIONS

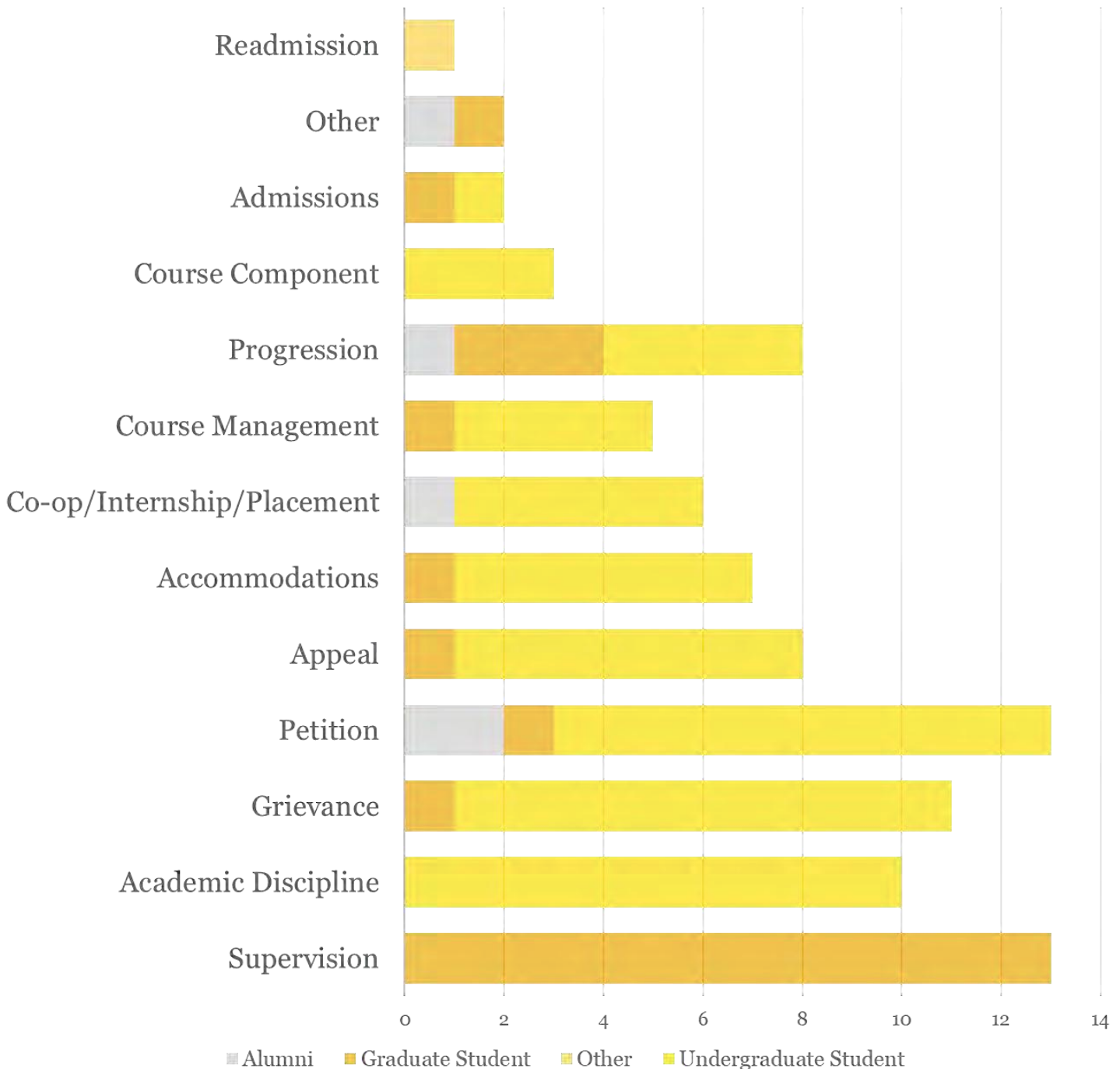
Communication patterns show email as the primary method of contact, followed by virtual and in-person meetings.



ACADEMIC CONCERNS

Academic concerns accounted for the majority of cases. The most common issues were supervision, progression, and accommodations, reflecting challenges in navigating program requirements and support systems.

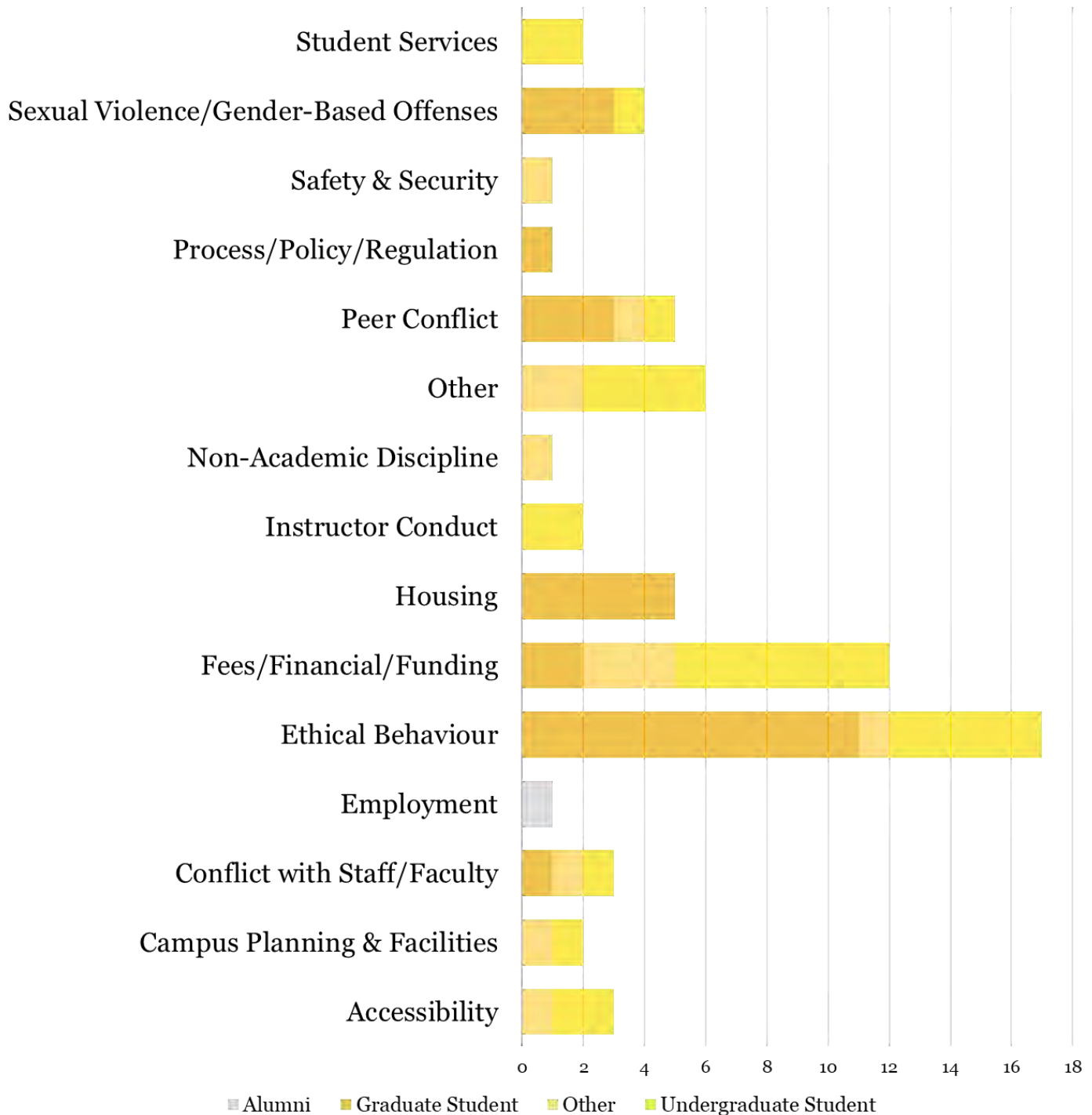
Supervision concerns often involve the student-supervisor relationship and expectations for research or thesis work. Progression refers to issues with advancing through program milestones. Accommodations include requests or disputes related to disability or health-related supports.



NON-ACADEMIC CONCERNS

Non-academic concerns represented a significant portion of cases, focusing on ethical behavior, housing, and financial matters. These issues highlight the broader student experience beyond academics.

Ethical behavior concerns include allegations of misconduct, harassment, discrimination, or other concerns that fall under the scope of Policy 33. Housing issues relate to campus accommodations, roommate challenges, or landlord disputes. Financial concerns include tuition, fees, and related financial pressures.



MOVING FORWARD



The first year was about building a foundation: creating a trusted, impartial resource and establishing systems that support fairness in practice, policy, and procedure. With that foundation in place, the next chapter focuses on deepening impact and strengthening the University's fairness infrastructure.

Reaching More Students

Fairness should be accessible no matter where a student studies. The Office will broaden its presence by visiting additional campuses, including Pharmacy and Optometry, and connecting with the Affiliated and Federated Institutions of Waterloo (AFIW). These visits are about more than visibility, they create opportunities to understand unique challenges and ensure every student knows where to turn for impartial guidance.

Making Fairness Easier to Understand

Students have told me that clarity matters. The Office will continue building plain-language resources that break down complex policies into practical steps. The monthly blog will remain a space for sharing insights on fairness and systemic trends, helping students feel confident navigating university processes. Education isn't just about information, it's about empowerment.

Turning Data into Action

Behind every case is a story, and behind every story is a pattern. With case management and reporting systems now in place, the Office can move beyond counting cases to identifying themes. Reporting tools will support thematic reporting, helping uncover systemic issues and inform recommendations that strengthen fairness across the institution.

Building Stronger Connections

The Office will maintain regular engagement with academic support units, student leadership, and academic units, sharing observations and faculty summaries that support continuous improvement. These conversations ensure fairness is not only practiced but embedded in decision-making.

Every door tells a story with a variety of questions asked, challenges faced, and paths discovered. As the University evolves, new doors will appear, and some will need to be rebuilt. The Ombuds Office will keep opening those doors, making sure what's behind them is clear, fair, and accessible. Because fairness is more than understanding. It's being treated with respect, following procedures that are transparent and consistent, and ensuring decisions are reasonable and grounded in context.

This first year was just the beginning. The Ombuds Office will keep opening doors - doors to enhanced clarity, respect, and fairness for every student at Waterloo.

A NOTE OF THANKS

I want to thank the students, past and present, whose advocacy made the creation of this Office possible. Your voices opened the door to strengthening fairness at Waterloo.

To every student who has visited or connected with the Ombuds Office this year; Thank you for placing your trust in this resource. That trust is the foundation on which this work stands.



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Ombudsperson