ECON 743
Topics in Health Economics

Under Review | Fall 2025

Proposal Information

Status

Changes

~~Active~~**Retired**

Warning: All versions that start after the retired version will be deleted.

Workflow Status

In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year

Effective Date & Career

Career

Graduate

Important!

Proposed

Effective Term and Year

Fall 2025

Existing

Effective Term and Year

Fall 2023

Quest Course ID

12337

Offering Number

1

Proposal Details

Proposal Type

Retire

Academic Unit Approval

02/28/2025

Last Offering of Course

-

Retired Impact

No

Rationale for Change

The 700 level courses go back to a time when our PhD program required students to take electives at the 700 level. This is no longer the case. PhD students can now take 600 level courses as their electives.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
743

Title
Topics in Health Economics

Abbreviated Title
Topics in Health Economics

Description
The course builds upon the MA course in Health Economics (643). This topics course is designed for students wishing to undertake research in the area of health policy. The course will examine health and economic literature on mutually (instructor and students) agreed upon topics, focusing on current research issues in population health, health-services research, economic evaluation, and health policy analysis from an economic perspective.

Units
0.50

Exceptions to fees or academic progress units

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:
  - ECON643 - Health Economics (0.50)

Corequisites
No Rules

Antirequisites
No Rules

Course Notes

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

ECON 751
Advanced Labour Economics

Under Review | Fall 2025

Proposal Information

Status

Changes

~~Active~~**Retired**

Warning: All versions that start after the retired version will be deleted.

Workflow Status

In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year

Effective Date & Career

Career

Graduate

Important!

Proposed

Effective Term and Year

Fall 2025

Existing

Effective Term and Year

Fall 2023

Quest Course ID

14732

Offering Number

1

Proposal Details

Proposal Type

Retire

Academic Unit Approval

02/28/2025

Last Offering of Course

-

Retired Impact

No

Rationale for Change

The 700 level courses go back to a time when our PhD program required students to take electives at the 700 level. This is no longer the case. PhD students can now take 600 level courses as their electives.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
751

Title
Advanced Labour Economics

Abbreviated Title
Advanced Labour Economics

Description
This course offers a study of the core topics in labour economics. Labour supply, labour demand, wage determination and unemployment are presented in the context of consumer and producer choice theory. Knowledge of graduate level microeconomic theory and econometrics is required. Although no familiarity with specialized econometric methods is assumed, this course will introduce students to common estimation techniques employed in labour economics. Students will also learn about the more recent treatment of the core topics through readings of current research analyzing models' extensions.

Units
0.50

Exceptions to fees or academic progress units

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

- Not completed nor concurrently enrolled in:
  - ECON651 - Labour Economics (0.50)

Course Notes

Fee Statement

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Dependent Courses and Programs/Plans

There are no dependencies

ECON 757
Advanced Environmental Economics

Under Review | Fall 2025

Proposal Information

Status

Changes

~~Active~~**Retired**

Warning: All versions that start after the retired version will be deleted.

Workflow Status

In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year

Effective Date & Career

Career

Graduate

Important!

Proposed

Effective Term and Year

Fall 2025

Existing

Effective Term and Year

Fall 2023

Quest Course ID

14733

Offering Number

1

Proposal Details

Proposal Type

Retire

Academic Unit Approval

02/28/2025

Last Offering of Course

-

Retired Impact

No

Rationale for Change

The 700 level courses go back to a time when our PhD program required students to take electives at the 700 level. This is no longer the case. PhD students can now take 600 level courses as their electives.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
757

Title
Advanced Environmental Economics

Abbreviated Title
Advanced Enviornmental Econ

Description
This course is intended for PhD students who specialize in the field of environmental economics. It provides an advanced analysis of the interplay between economic activities and the environment, and environmental regulation. The course will focus on the application of several advanced economic tools and methods covered in the core PhD theory courses to environmental problems. Topics may include the application of general equilibrium theory, game theory, real options theory, optimal control theory, dynamic optimization, and econometric analysis to environmental policy analysis and design.

Units
0.50

Exceptions to fees or academic progress units

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

- Not completed nor concurrently enrolled in:
  - ECON657 - Environmental Economics (0.50)

Course Notes

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

ECON 773
Special Topic in Economics

Under Review | Fall 2025

Proposal Information

Status

Changes

~~Active~~**Retired**

Warning: All versions that start after the retired version will be deleted.

Workflow Status

In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year

Effective Date & Career

Career

Graduate

Important!

Proposed

Effective Term and Year

Fall 2025

Existing

Effective Term and Year

Fall 2023

Quest Course ID

12336

Offering Number

1

Proposal Details

Proposal Type

Retire

Academic Unit Approval

02/28/2025

Last Offering of Course

-

Retired Impact

No

Rationale for Change

The 700 level courses go back to a time when our PhD program required students to take electives at the 700 level. This is no longer the case. PhD students can now take 600 level courses as their electives.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
773

Title
Special Topic in Economics

Abbreviated Title
Special Topic in Economics

Description
One or more courses will be offered at different times as announced by the Department.

Units
0.50

Exceptions to fees or academic progress units

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

Instructor consent required

Consent to Drop

No consent required

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Fee Statement

Workflow Information

Workflow Path

Committee approvals

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Dependent Courses and Programs/Plans

There are no dependencies

ECON 623
Time Series Econometrics

Under Review | Fall 2025

Proposal Information

Status
Active

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year
- Title
- Abbreviated Title
- Description

Effective Date & Career

Career
Graduate

Important!

Proposed
Effective Term and Year
Fall 2025

Existing
Effective Term and Year
Fall 2023

Quest Course ID
13665

Offering Number
1

Proposal Details

Proposal Type
Change

Academic Unit Approval
02/28/2025

Rationale for Change

The main reason for the name change is to attract students outside of Economics who are interested in applications outside of macroeconomics. This description also aligns better with how the course is currently taught.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
623

Proposed
Title
Time Series Econometrics

Existing
Title
Applied Macroeconometrics I

Proposed
Abbreviated Title
Time Series Econometrics

Existing
Abbreviated Title
Applied Macroeconometrics I

Proposed

Description

This course introduces students to methods and practices of analyzing data that exhibit dependence over time. The topics may cover fundamental linear time series models (autoregressive processes, moving average processes and their generalizations), modelling time-varying volatility (the autoregressive conditional heteroskedasticity or ARCH family of models and stochastic volatility models), multivariate time series analysis, non-stationary models, and ongoing topics in modern time series econometric research.

Existing

Description

This course focuses on the econometric techniques of empirical problems. Topics may include some basic concepts in time series analysis (such as deterministic and stochastic processes, stationary, ACF, Ergodicity conditions), established estimation techniques (such as OLS/GLS, MLE, GMM, Monte-Carlo simulation), popular univariate and multivariate time series models (such as ARMA process, autoregressive conditional heteroskedasticity model, stochastic volatility model, Vector Autoregression, Vector Moving Average), and non stationary models (such as random walk, unit roots, Dickey-Fuller Tests, Co-integration System and error corrections). Some related (empirical/theoretical) published papers for each topic may be discussed in class. An empirical project is required in the course, requiring the use of software (such as Matlab, SAS).

Units

0.50

Exceptions to fees or academic progress units

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:
  - ECON621 - Econometrics I (0.50)

Corequisites
No Rules

Antirequisites
No Rules

Course Notes

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

ECON 641
Public Economics

Under Review | Fall 2025

Proposal Information

Status
Active

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year
- Title
- Abbreviated Title
- Description

Effective Date & Career

Career
Graduate

Important!

Proposed
Effective Term and Year
Fall 2025

Existing
Effective Term and Year
Fall 2023

Quest Course ID
938

Offering Number
1

Proposal Details

Proposal Type
Change

Academic Unit Approval
02/28/2025

Rationale for Change

We had two active graduate courses on public economics, one for expenditure (ECON 641) and one for taxation (ECON 642). There's no need in our current programs to have such a distinction. One course can cover either or both topics.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
641

Proposed
Title
Public Economics

Existing
Title
Public Economics: Expenditure

Proposed
Abbreviated Title
Public Economics

Existing
Abbreviated Title
Public Economics: Expenditure

Proposed
Description
This course studies the economic role of the public sector in a market economy. Topics may include the provision of public goods, externalities and public choice, analysis of the growth in government spending, the design of tax systems, international aspects of taxation, and fiscal federalism.

Existing
Description
This course studies the economic role of the public sector in a modern market economy. Topics include the efficient provision of public goods, externalities and public choice analysis of the growth in government spending. Time permitting, some issues in the public economics of taxation may be covered.

Units
0.50

Exceptions to fees or academic progress units

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
ANTIREQUISITES
ECON 741 - Advanced Public Economics Expenditure

View Courses

ECON 645
Industrial Organization

Under Review | Fall 2025

Proposal Information

Status
Active

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year
- Title
- Abbreviated Title
- Description

Effective Date & Career

Career
Graduate

Important!

Proposed
Effective Term and Year
Fall 2025

Existing
Effective Term and Year
Fall 2023

Quest Course ID
939

Offering Number
1

Proposal Details

Proposal Type
Change

Academic Unit Approval
02/28/2025

Rationale for Change

We had two active graduate courses on industrial organization (ECON 645 and ECON 648). There is no need in our current programs for both as one course can cover the topics listed in both courses.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
645

Proposed
Title
Industrial Organization

Existing
Title
Industrial Organization I

Proposed
Abbreviated Title
Industrial Organization

Existing
Abbreviated Title
Industrial Organization I

Proposed
Description
This course studies firm behaviour in markets that are imperfectly competitive and the differences in industry equilibrium relative to perfect competition. Topics may include market structure, the theory of the firm, differentiated products, price discrimination, advertising, barriers to entry, and strategic behaviour as well as policy implications.

Existing
Description
Study of the firm as a rational economic agent, how it makes decisions and implements strategies in markets that are imperfectly competitive, and the differences in industry equilibrium relative to perfect competition. The course covers market owe (oligopolies and monopolistically competitive models), the theory of the firm (organization and contracts), vertical restraints, differentiated products, price discrimination, advertising, barriers to entry, and strategic behaviour.

Units
0.50

Exceptions to fees or academic progress units

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

ECON 627
Econometrics of High Dimensional Data

Under Review | Fall 2025

Proposal Information

Workflow Status

In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career

Graduate

Important!

Quest Course ID

Effective Term and Year

Fall 2025

Offering Number

Proposal Details

Proposal Type

New

Academic Unit Approval

02/28/2025

Rationale for New Course

This course has been offered four times as a special topics course and has high demand every year. It is one of the courses approved for the GDip in CDASH. This year we offered 4 different courses with the 673 Special Topics designation. It's time for the ones we plan to continue offering to get their own numbers.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
627

Title
Econometrics of High Dimensional Data

Abbreviated Title
High Dimensional Data

Description
Estimation of econometric models using automatic model selection and dimension reduction techniques, with emphasis on estimation of the causal effects of economic policies. Methods may include Lasso and related estimators, principal components, regression trees or forests, and double/debiased machine learning. These methods may be used with conditional ignorability assumptions in linear models, directed acyclic graphs, or structural equation models to estimate heterogeneous treatment effects with economic data.

Units
0.50

Exceptions to fees or academic progress units

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

ECON 647
Economics of Innovation

Under Review | Fall 2025

Proposal Information

Workflow Status

In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career

Graduate

Important!

Quest Course ID

Effective Term and Year

Fall 2025

Offering Number

Proposal Details

Proposal Type

New

Academic Unit Approval

02/28/2025

Rationale for New Course

This course has been offered three times as a special topics course and has had good demand.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Department of Economics

Subject Code
ECON

Number
647

Title
Economics of Innovation

Abbreviated Title
Economics of Innovation

Description
This course studies the incentives to innovate and how institutions and public policy shape these incentives. Topics may include the nature of ideas and innovation, intellectual property rights, technology clusters, knowledge spillovers and diffusion, whether immigration contributes to innovation, and the impact of artificial intelligence.

Units
0.50

Exceptions to fees or academic progress units

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

PSCI 656
The Politics of Inequality

Under Review | Fall 2025

Proposal Information

Status
Active

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand ▲
Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year
- Description
- Is this course cross-listed?
- Cross-Listed Courses

Effective Date & Career

Career ?
Graduate

Important!

Proposed
Effective Term and Year ?
Fall 2025

Existing
Effective Term and Year ?
Fall 2023

Quest Course ID
15942

Offering Number
1

Proposal Details

Proposal Type ?
Change

Academic Unit Approval
04/10/2025

Rationale for Change

Political Science and Global Governance would like to cross-list the course, which is of interest to students in both programs. GGOV will add the course to its list of electives in the Global Social Governance field.

Consultations

Supporting Documentation

Course Information

Faculty

Faculty of Arts

Academic Unit

Department of Political Science

Subject Code

PSCI

Number

656

Title

The Politics of Inequality

Abbreviated Title

The Politics of Inequality

Proposed

Description

This course studies the relationship between politics and socioeconomic inequality from a wide range of perspectives, such as inequality relating to income and debt, ethnicity, sex, consumers and producers, and regions.

Existing

Description

This course studies the relationship between politics and socioeconomic inequality from a wide range of perspectives, such as inequality relating to income and debt, ethnicity, sex, consumers and producers, and regions

Units

0.50

Exceptions to fees or academic progress units

Components

LectureOnline

Primary Component

Seminar

Grading Information

Grading Basis

Numerical Grading Basis

Cross-Listing Information

Proposed
Is this course cross-listed?
Yes

Existing
Is this course cross-listed?
No

Proposed
Cross-Listed Courses
GGOV 674 - The Politics of Inequality (0.50) | **Under Review**

Existing
Cross-Listed Courses

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

GGOV 674
The Politics of Inequality

Under Review | Fall 2025

Proposal Information

Workflow Status

In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career

Graduate

Important!

Quest Course ID

15942

Effective Term and Year

Fall 2025

Offering Number

Proposal Details

Proposal Type

New

Academic Unit Approval

04/10/2025

Rationale for New Course

Political Science and Global Governance would like to cross-list the course, which is of interest to students in both programs. GGOV will add the course to its list of electives in the Global Social Governance field.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Dean of Arts Office

Subject Code
GGOV

Number
674

Title
The Politics of Inequality

Abbreviated Title
The Politics of Inequality

Description
This course studies the relationship between politics and socioeconomic inequality from a wide range of perspectives, such as inequality relating to income and debt, ethnicity, sex, consumers and producers, and regions.

Units
0.50

Exceptions to fees or academic progress units

Components
LectureOnline

Primary Component
Seminar

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
Yes

Cross-Listed Courses
PSCI 656 - The Politics of Inequality (0.50)

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

MA in Global Governance
Master of Arts (MA) in Global Governance

Under Review | Fall 2025

Proposal Information

Status
Active

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year
- Master's Research Paper Option: Course Requirements
- internshipRequirements

Effective Date and Career

Career
Graduate

Important!

Proposed
Effective Term and Year
Fall 2025

Existing
Effective Term and Year
Fall 2023

Proposal Details

Proposal Type
Change

Academic Unit Approval
04/10/2025

Quality Assurance Designation
Minor Modification

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 list of required/elective courses. This is housekeeping. Over the years we have added new courses but have not updated the Calendar page. We are deleting duplications and adding new courses that have already been approved.

Consultations (Departmental)

Supporting Documentation

General Program/Plan Information

Faculty
Faculty of Arts

Academic Unit
Global Governance

Graduate Field of Study
Global Governance

Faculty
Faculties of Arts and Environment

Program/Plan Name
Master of Arts (MA) in Global Governance

Graduate Credential Type
Master's

Accelerated Program
Not applicable

Study Options (New)
Master's Research Paper

Program Types
Internship

Admit Term(s)
Fall

Delivery Mode
On-campus

Delivery Mode Information

Length of Program

- The program is designed to be completed in 4 terms.

Registration Option(s)

Full-time
Part-time

Registration Options Information

This program will not normally be offered on a part-time basis. In exceptional circumstances, students may assume part-time status after their formal course work has been completed.

Graduate Research Fields

- Conflict and Security
- Global Environment
- Global Justice and Human Rights
- Global Political Economy
- Global Social Governance
- Multilateral Institutions and Diplomacy
- Peace Integration

Graduate Specializations

Additional Program Information

- **University of Waterloo-University of Warwick Double Degree**: Established in 2014, the University of Waterloo-University of Warwick double degree program offers students an opportunity to study in one of the UK's best politics departments in combination with their studies at the University of Waterloo. The program allows students to combine the MA in Global Governance (MAGG) program with their choice of masters programs offered by the Department of Politics and International Studies (PAIS) at the University of Warwick. Students choose between two routes, either carrying out the first year of their studies at the University of Warwick before proceeding to the University of Waterloo in their second year to complete their degree, or beginning with the first year at the University of Waterloo and then completing the second year at the University of Warwick.
- The admission requirements for the MAGG-PAIS double degree are exactly the same as the admission requirements for the MAGG. Students complete the degree requirements for MAGG and the PAIS, but only write one Master's Research Paper (15,000 words), which is supervised jointly by faculty at the University of Waterloo and University of Warwick. At the end of the two years, they receive degrees from both the University of Waterloo and University of Warwick.
- **University of Waterloo-American University Admissions Pathway**: Established in 2019, the University of Waterloo-American University admissions pathway program offers students an opportunity to obtain an additional graduate-level degree at one of the top-ranked schools of international affairs in the United States. The program allows students to combine the interdisciplinary and experiential approach to the study of Global Governance with additional academic training in applied international affairs through the Master of International Studies-International Studies Track (MIS-IST). Students will create a concentration of their choice, tailored to their professional goals.
- Current graduate students in the MAGG or students who have graduated from the MAGG within three years of their requested date of admission may apply to AU's Master of International Service degree program through the International Studies Track, offered on campus in Washington, DC and online.

Admissions

Admission Requirements: Minimum Requirements

- Successful completion of an Honours Degree in Political Science, Economics, History or a related field (including international, environmental or global studies undergraduate degrees) with an overall average of at least 78% in the final 20 courses.
- Successful completion of at least one introductory course in economics at the university level before commencing the program.
- Experienced professionals in the private or public sectors will be considered for admission, but additional course work may be required.
- English language proficiency (ELP) (if applicable)

Admission Requirements: Application materials

- Résumé
- Supplementary information form
- Transcript(s)
- Writing sample

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 listed below in addition to the Graduate Academic Integrity Module (Graduate AIM).

Master's Research Paper Option: Course Requirements

No Rules

Proposed

Master's Research Paper Option: Course Requirements

- Students must complete 6 courses during the first two terms, as follows:
  - Core course component: GGOV 600 Global Governance
  - History component: 1 of the following courses (or an appropriate alternative):
    - GGOV 605/HIST 605 Global Governance in Historical Perspective
    - HIST 606 International Development in Historical Perspective
    - HIST 607 Human Rights in Historical Perspective I
    - HIST 608 Human Rights in Historical Perspective II
    - GGOV 645/HIST 612 Global Indigenous Rights
    - HIST 660 Transnational and Global History: Old Problems and New Directions
  - Economics component: 1 of the following courses (or an appropriate alternative):
    - GGOV 610/PSCI 688/PACS 630 Governance of Global Economy
    - GGOV 613/PSCI 668 The Politics of National Innovation Systems
    - GGOV 614/PSCI 614 Global Business and Development
    - GGOV 616/PSCI 690 Theories of Political Economy
    - GGOV 618 Special Topics in Global Political Economy
    - GGOV 619 Readings in Global Political Economy
    - GGOV 621/PSCI 606/ERS 606 Governing Global Food and Agriculture Systems
    - GGOV 663/PSCI 619 China and Global Governance
    - ECON 631 International Trade
    - ECON 635 International Trade and Development
    - ECON 637 Economic Analysis and Global Governance
    - ECON 673 Special Topics in Economics
  - Political Science component: 1 of the following courses:
    - GGOV 610/PACS 630/PSCI 688 Governance of Global Economy (GV 731 at WLU)
    - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance (GV 732 at WLU)
    - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems
    - GGOV 630/PSCI 678/PACS 634 Conflict and Security (GV 733 at WLU)
    - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues
    - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
    - GGOV 642/PSCI 639 Global Social Governance (GV 735 at WLU)
    - PSCI 657/GGOV 650 International Organizations and Global Governance
  - Elective component: 2 additional courses chosen from the following list:
    - ECON 635 International Trade and Development
    - GGOV 613/PSCI 668 The Politics of National Innovation Systems
    - GGOV 614/PSCI 614 Global Business and Development
    - GGOV 618 Special Topics in Global Political Economy
    - GGOV 619 Readings in Global Political Economy
    - GGOV 622 Complexity and Global Governance
    - GGOV 628 Topics in Global Environmental Governance
    - GGOV 629 Readings in Global Environment
    - GGOV 633 Managing Nuclear Risk
    - GGOV 634/PSCI 620 Gender and Global Politics
    - GGOV 635/SOC 785 Urban Security Governance
    - GGOV 638 Special Topics in Conflict and Security
    - GGOV 639 Readings in Conflict and Security
    - GGOV 641 International Human Rights (GV 760 at WLU)
    - GGOV 644/SOC 784 International Migration: Practice, Theory and Regulation
    - GGOV 645/HIST 612 Global Indigenous Rights
    - GGOV 648 Special Topics in Global Justice and Human Rights
    - GGOV 649 Readings in Global Justice
    - GGOV 653 International Organizations and Public Policy

        - GGOV 654/PSCI 610 International Relations Theory
        - GGOV 655/PSCI 611 Current Issues in International Relations
        - GGOV 658 Special Topics in Multilateral Institutions and Diplomacy
        - GGOV 659 Readings in Multilateral Institutions and Diplomacy
        - GGOV 660/PSCI 609/SUSM 660 Public International Law
        - GGOV 661 International Organizations Law
        - GGOV 662/SOC 781 Global Development Governance
        - GGOV 663/PSCI 619 China and Global Governance
        - GGOV 664/SOC 721 Law, Tech, & Society
        - GGOV 668 Special Topics in Global Social Governance
        - GGOV 669 Readings in Global Social Governance
        - GGOV 674/PSCI 656 The Politics of Inequality
        - HIST 604 Theory and Practice of Insurgency and Counterinsurgency: Historical and Contemporary Issues
        - HIST 606 International Development in Historical Perspective
        - HIST 610 War and Society in the Twentieth Century I
        - HIST 611 War and Society in the Twentieth Century II
        - HIST 626 Modern European History I
        - HIST 627 Modern European History II
        - HIST 632 History of the United States I
        - HIST 651 Historians and Public Policy
        - PSCI 680 Critical Security Studies
        - PSCI 684 Special Topics in International Diplomacy
        - Note: Not all courses are offered each year and more courses may be available. Consult the respective departments for information on available courses in any given year. Consult the Graduate Studies Academic Calendar course catalog for full course descriptions.
    - Students in the MA program may also wish to pursue a Graduate Research Field in Peace Integration.
    - 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 and a set of courses that together provide an in-depth study in the area of the Graduate Research Field. A student will only obtain the Graduate Research Field on their transcript if they have completed the requirements associated with the MA degree and the requirements associated with the Graduate Research Field.
    - The course requirements for the Graduate Research Field in Peace Integration are described below.
    - Students must successfully complete the following courses:
        - GGOV 600 Global Governance
        - 1 course from the following list:
            - PACS 601 Thinking Critically About Civil Society
            - PACS 602 Reflective Peace Practice
            - PACS 603 Engaging Communities in Social Change
            - PACS 604 Conflict Analysis
            - PACS 605 Conflict Transformation and Peacebuilding
        - 2 courses from the following list (note: each of the 2 courses must be from a different subjectcode/area):
            - INDEV 604/PACS 650 Sustainable Cities
            - INDEV 605/PACS 651 Economics for Sustainable Development
            - INDEV 608/PACS 652 Water and Security
            - INDEV 609 Sustainability Concepts, Applications and Key Debates
            - INDEV 613 Water, Human Security and Development
            - GEMCC 602 Climate Change: Vulnerability and Adaptation
            - GEMCC 622 Climate Change, Natural Hazards and Disaster Risk Reduction
            - GEMCC 640 Climate Change Governance: From Global Treaties to Local Innovation
            - HLTH 603 Health Systems and Policy

    - HLTH 604 Public Health and the Environment
    - HLTH 607 Social, Cultural and Behavioural Aspects of Public Health I
    - HLTH 614 Foundations of Program Evaluation
    - HLTH 632 Health Economics and Public Health
    - HLTH 661 Geographic Information Systems and Public Health
    - HLTH 662 Global Health
- 2 additional courses from the following list (note: each of the 2 courses must be from a different subject code/area):
    - History component: 1 of the following courses (or an appropriate alternative):
    - GGOV 605/HIST 605 Global Governance in Historical Perspective
    - HIST 606 International Development in Historical Perspective
    - HIST 607 Human Rights in Historical Perspective I
    - HIST 608 Human Rights in Historical Perspective II
    - GGOV 645/HIST 612 Global Indigenous Rights
    - HIST 660 Transnational and Global History: Old Problems and New Directions
    - Economics component: 1 of the following courses (or an appropriate alternative):
    - GGOV 610/PSCI688/PACS 630 Governance of Global Economy
    - GGOV 613/PSCI 668 The Politics of National Innovation Systems
    - GGOV 614/PSCI 614 Global Business and Development
    - GGOV 618 Special Topics in Global Political Economy
    - GGOV 619 Readings in Global Political Economy
    - GGOV 621/PSCI 606/ERS606 Governing Global Food and Agriculture Systems
    - GGOV 663/PSCI 619 China and Global Governance
    - ECON 631 International Trade
    - ECON 635 International Trade and Development
    - ECON 637 Economic Analysis and Global Governance
    - ECON 673 Special Topics in Economics
    - Political Science component: 1 of the following courses:
    - GGOV 610/PACS 630/PSCI 688 Governance of Global Economy (GV 731 at WLU)
    - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance (GV 732 at WLU)
    - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems\
    - GGOV 630/PSCI 678/PACS 634 Conflict and Security (GV 733at WLU)
    - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues
    - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
    - GGOV 642/PSCI 639 Global Social Governance (GV 735 at WLU)
    - PSCI 657/GGOV 650 International Organizations and Global Governance

Existing

Master's Research Paper Option: Course Requirements

- Students must complete 6 courses during the first two terms, as follows:
  - Core course component: GGOV 600 Global Governance
  - History component: 1 of the following courses (or an appropriate alternative):
    - HIST 605 Global Governance in Historical Perspective
    - HIST 606 International Development in Historical Perspective
    - HIST 607 Human Rights in Historical Perspective I
    - HIST 608 Human Rights in Historical Perspective II
    - HIST 612 Global Indigenous Rights
    - HIST 660 Transnational and Global History: Old Problems and New Directions
  - Economics component: 1 of the following courses (or an appropriate alternative):
    - GGOV 610/PSCI 688/PACS 630 Governance of Global Economy
    - GGOV 613/PSCI 668 The Politics of National Innovation Systems
    - GGOV 614/PSCI 614 Global Business and Development
    - GGOV 618 Special Topics in Global Political Economy
    - GGOV 619 Readings in Global Political Economy
    - GGOV 621/PSCI 606/ERS 606 Governing Global Food and Agriculture Systems
    - GGOV 663/PSCI 619 China and Global Governance
    - ECON 631 International Trade
    - ECON 635 International Trade and Development
    - ECON 637 Economic Analysis and Global Governance
    - ECON 673 Special Topics in Economics
  - Political Science component: 1 of the following courses:
    - GGOV 610/PSCI 688 Governance of Global Economy (GV 731 at WLU)
    - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance (GV 732 at WLU)
    - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems
    - GGOV 630/PSCI 678/PACS 634 Security Ontology-Theory (GV 733 at WLU)
    - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues
    - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
    - GGOV 642/PSCI 639 Global Social Governance (GV 735 at WLU)
    - PSCI 657/GGOV 650 International Organizations and Global Governance
  - Elective component: 2 additional courses chosen from the following list:
    - ECON 635 International Trade and Development
    - GGOV 613/PSCI 668 The Politics of National Innovation Systems
    - GGOV 614/PSCI 614 Global Business and Development
    - GGOV 618 Special Topics in Global Political Economy
    - GGOV 619 Readings in Global Political Economy
    - GGOV 622 Complexity and Global Governance
    - GGOV 628 Topics in Global Environmental Governance
    - GGOV 629 Readings in Global Environment
    - GGOV 633 Managing Nuclear Risk
    - GGOV 634/PSCI 620 Gender and Global Politics
    - GGOV 638 Special Topics in Conflict and Security
    - GGOV 639 Readings in Conflict and Security
    - GGOV 641 International Human Rights (GV 760 at WLU)
    - GGOV 644/SOC 784 International Migration: Practice, Theory and Regulation
    - GGOV 648 Special Topics in Global Justice and Human Rights
    - GGOV 649 Readings in Global Justice
    - GGOV 653 International Organizations and Public Policy
    - GGOV 654/PSCI 610 International Relations Theory
    - GGOV 655/PSCI 611 Current Issues in International Relations
    - GGOV 658 Special Topics in Multilateral Institutions and Diplomacy

        - GGOV 659 Readings in Multilateral Institutions and Diplomacy
        - GGOV 660 Public International Law
        - GGOV 661 International Organizations Law
        - GGOV 662/SOC 781 Global Development Governance
        - GGOV 663 China and Global Governance
        - GGOV 668 Special Topics in Global Social Governance
        - GGOV 669 Readings in Global Social Governance
        - HIST 604 Theory and Practice of Insurgency and Counterinsurgency: Historical and Contemporary Issues
        - HIST 606 International Development in Historical Perspective
        - HIST 610 War and Society in the Twentieth Century I
        - HIST 611 War and Society in the Twentieth Century II
        - HIST 626 Modern European History I
        - HIST 627 Modern European History II
        - HIST 632 History of the United States I
        - HIST 651 Historians and Public Policy
        - PSCI 639/GGOV 642 Global Social Governance
        - PSCI 651 Democracy and Development
        - PSCI 657/GGOV 650 International Organizations and Global Governance
        - PSCI 658/GGOV 640 Human Rights in the Globalized World
        - PSCI 680 Critical Security Studies
        - PSCI 684 Special Topics in International Diplomacy
        - Note: Not all courses are offered each year and more courses may be available. Consult the respective departments for information on available courses in any given year. Consult the Graduate Studies Academic Calendar course catalog for full course descriptions.
    - Students in the MA program may also wish to pursue a Graduate Research Field in Peace Integration.
    - 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 and a set of courses that together provide an in-depth study in the area of the Graduate Research Field. A student will only obtain the Graduate Research Field on their transcript if they have completed the requirements associated with the MA degree and the requirements associated with the Graduate Research Field.
    - The course requirements for the Graduate Research Field in Peace Integration are described below.
    - Students must successfully complete the following courses:
        - GGOV 600 Global Governance
        - 1 course from the following list:
            - PACS 601 Systems of Peace, Order, and Good Governance
            - PACS 602 Practice of Peace
            - PACS 603 Building Civil Society
            - PACS 604 Conflict Analysis
            - PACS 605 Conflict Transformation and Peacebuilding
        - 2 courses from the following list (note: each of the 2 courses must be from a different subjectcode/area):
            - INDEV 604/PACS 650 Sustainable Cities
            - INDEV 605/PACS 651 Economics for Sustainable Development
            - INDEV 608/PACS 652 Water and Security
            - INDEV 609 Sustainability Concepts, Applications and Key Debates
            - INDEV 613 Water, Human Security and Development
            - GEMCC 602 Climate Change: Vulnerability and Adaptation
            - GEMCC 622 Climate Change, Natural Hazards and Disaster Risk Reduction
            - GEMCC 640 Climate Change Governance: From Global Treaties to Local Innovation
            - HLTH 603 Health Systems and Policy
            - HLTH 604 Public Health and the Environment (blended on-campus/online offering)

    - HLTH 607 Social, Cultural and Behavioural Aspects of Public Health I (blended on-campus/ online offering)
    - HLTH 614 Foundations of Program Evaluation
    - HLTH 632 Health Economics and Public Health (online offering)
    - HLTH 661 Geographic Information Systems and Public Health (online offering)
    - HLTH 662 Global Health
- 2 additional courses from the following list (note: each of the 2 courses must be from a different subject code/area):
    - History component: 1 of the following courses (or an appropriate alternative):
    - HIST 605 Global Governance in Historical Perspective
    - HIST 606 International Development in Historical Perspective
    - HIST 607 Human Rights in Historical Perspective I
    - HIST 608 Human Rights in Historical Perspective II
    - HIST 612 Global Indigenous Rights
    - HIST 660 Transnational and Global History: Old Problems and New Directions
    - Economics component: 1 of the following courses (or an appropriate alternative):
    - GGOV 610/PSCI688/PACS 630 Governance of Global Economy
    - GGOV 613/PSCI 668 The Politics of National Innovation Systems
    - GGOV 614/PSCI 614 Global Business and Development
    - GGOV 618 Special Topics in Global Political Economy
    - GGOV 619 Readings in Global Political Economy
    - GGOV 621/PSCI 606/ERS606 Governing Global Food and Agriculture Systems
    - GGOV 663/PSCI 619 China and Global Governance
    - ECON 631 International Trade
    - ECON 635 International Trade and Development
    - ECON 637 Economic Analysis and Global Governance
    - ECON 673 Special Topics in Economics
    - Political Science component: 1 of the following courses:
    - GGOV 610/PSCI 688 Governance of Global Economy (GV 731 at WLU)
    - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance (GV 732 at WLU)
    - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems\
    - GGOV 630/PSCI 678/PACS 634 Security Ontology-Theory (GV 733at WLU)
    - GGOV 631/PSCI 679/PACS 635 Security Ontology-Issues & Institutions
    - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
    - GGOV 642/PSCI 639 Global Social Governance (GV 735 at WLU)
    - PSCI 657/GGOV 650 International Organizations and Global Governance

Master's Research Paper Option: Milestone Requirements

Master's Seminar

- Students must attend the program seminar. The seminar will meet regularly throughout the first and second term. Meetings will include visiting speakers (at both the University of Waterloo and the Centre for International Governance Innovation), guest talks by core faculty members and, during the second term, discussions of the research plans of students for the Master's Research Paper (MRP). Attendance at the Seminar is required, but grades will be assigned on a credit/non-credit (or pass/fail) basis.

Master's Internship

- All students are required to spend the equivalent of one academic term as an intern working on global governance issues in the public or private sector, at a research institute, or for a non-governmental organization. The work-term will normally take place in the third term of the program. A written report arising out of the internship experience will be required and will be evaluated. This report is distinct from the MRP, but could build towards it.

Master's Research Paper

- After the completion of the internship, students will concentrate during their fourth term on the completion of a MRP. The MRP provides students with an opportunity to pursue a specific research topic of their choosing relating to the study of global governance. The minimum length is 40 pages double-spaced and the maximum is 60 pages double-spaced.

Notes

- Balsillie School of International Affairs website
- Master of Arts (MA) in Global Governance future students program page

Workflow Information

Workflow Path	Faculty/AFIW Path(s) for Workflow	Senate Workflow
Committee approvals	Faculty of Arts	--

Dependencies

Dependent Courses and Programs/Plans

PREREQUISITES

- GGOV 600 - Global Governance — View Courses
- GGOV 610 - Governance of Global Economy — View Courses

PhD in Global Governance
Doctor of Philosophy (PhD) in Global Governance

Under Review | Fall 2025

Proposal Information

Status
Active

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Changes

- Effective Term and Year
- Graduate Course Requirements
- internshipRequirements

Effective Date and Career

Career
Graduate

Important!

Proposed
Effective Term and Year
Fall 2025

Existing
Effective Term and Year
Fall 2023

Proposal Details

Proposal Type
Change

Academic Unit Approval
04/10/2025

Quality Assurance Designation
Minor Modification

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 list of required/elective courses. This is housekeeping. Over the years we have added new courses but have not updated the Calendar page. We are deleting courses that date back to 2006 when the program was approved by the province and that we have never used as electives and adding new courses that have already been approved.

Consultations (Departmental)

Supporting Documentation

General Program/Plan Information

Faculty
Faculty of Arts

Academic Unit
Global Governance

Graduate Field of Study
Global Governance

Faculty
Faculties of Arts and Environment

Program/Plan Name
Doctor of Philosophy (PhD) in Global Governance

Graduate Credential Type
PhD

Accelerated Program
Not applicable

Program Types
Joint

Admit Term(s)
Fall

Delivery Mode
On-campus

Delivery Mode Information

Length of Program

- The expected time to completion is four years.

Registration Option(s)

Full-time

Registration Options Information

Graduate Research Fields

- Conflict and Security
- Global Environment
- Global Justice and Human Rights
- Global Political Economy
- Global Social Governance
- Multilateral Institutions and Diplomacy

Graduate Specializations

Additional Program Information

- The Doctor of Philosophy (PhD) in Global Governance is a joint program between the University of Waterloo and Wilfrid Laurier University (WLU).
- Applicants to this program apply to either the University of Waterloo or Wilfrid Laurier University, but admissions decisions to the program are made jointly by the Inter-University Program Committee. Successful applicants are assigned a "home" university at which they enrol.

Admissions

Admission Requirements: Minimum Requirements

- Students must hold a Master's degree with a minimum 80% average or equivalent in political science, history, economics, international development studies, international peace studies, globalization studies, environmental studies, or a related field.
- Experienced professionals in the private or public sectors will be considered for admission, but additional course work may be required.
- English language proficiency (ELP) (if applicable)

Admission Requirements: Application materials

- Résumé
- Supplementary information form
- Transcript(s)
- Writing sample

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 listed below in addition to the Graduate Academic Integrity Module (Graduate AIM).

Graduate Course Requirements

No Rules

Proposed

Graduate Course Requirements

- Students must complete 6 (0.50 unit weight) courses, including the following 4 mandatory courses: the "core" course component, the "economics" component, the "history" component, and the "research methods" component.
    - Core course component (must be completed in the first term of registration in the program).
        - 1 of the following courses:
            - GGOV 700 Global Governance
            - GV 710 (at WLU)
    - Economics component
        - ECON 637 Economic Analysis and Global Governance
    - History component
        - 1 of the following courses:
            - HIST 703 The History of Global Governance
            - GV 720 (at WLU) The History of Global Governance
    - Research Methods component
        - GGOV 701 Research Methods
        - GV 701 (at WLU)
- Graduate research fields
    - Students must choose to specialize in one of the six fields of the program. To prepare for the comprehensive exam in that field, they must select at least 2 courses from their chosen field. Of these 2, at least 1 course must be a course identified as "core" for that field (marked with an asterisk in the lists below). The 6th course is an elective course.
    - Not all courses are offered each year and more courses may be available. Consult the respective departments/schools at both institutions for information on available courses in any given year. Consult the respective graduate calendars for full course descriptions.
- If selecting the field of **Conflict and Security**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 630/PSCI 678/PACS 634 (GV 733 at WLU) Conflict and Security
        - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues
        - GGOV 633 Managing Nuclear Risk
        - GGOV 634/PSCI 620 Gender and Global Politics
        - GGOV 635/SOC 785 Urban Security Governance
        - GGOV 638 Special Topics in Conflict and Security
        - GGOV 639 Readings in Conflict and Security
        - HIST 604 Theory and Practice of Insurgency and Counterinsurgency: Historical and Contemporary Issues
        - HIST 610 War and Society in the Twentieth Century
        - HIST 611 War and Society in the Twentieth Century II
        - HIST 632 History of the United States I
        - PSCI 687 Explaining Interstate War
    - Wilfrid Laurier University
        - IP 631
- If selecting the field of **Global Environment**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance (GV 732 at WLU)
        - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems
        - GGOV 622 Complexity and Global Governance
        - GGOV 628 Topics in Global Environment
        - GGOV 629 Readings in Global Environment
    - Wilfrid Laurier University
        - IP 611

        - IP 612
        - IP 613/GG 664
- If selecting the field of **Global Justice and Human Rights**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
        - GGOV 641 (GV 760 at WLU) International Human Rights
        - GGOV 642/PSCI 639 Global Social Governance
        - GGOV 644/SOC 784 International Migration: Practice, Theory & Regulation
        - GGOV 645/HIST 612 Global Indigenous Rights
        - GGOV 648 Special Topics in Global Justice and Human Rights
        - GGOV 649 Readings in Global Justice
        - HIST 603 Nationalism and Ethnic Policies of Multinational States
        - HIST 626 Modern European History I
        - HIST 627 Modern European History II
        - HIST 635 Race in Modern History I
        - HIST 636 Race in Modern History II
        - PSCI 624/PACS 660 Justice and Gender
    - Wilfrid Laurier University
        - IP 632
- If selecting the field of **Global Political Economy**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - ECON 631 International Trade
        - ECON 635 International Trade & Development
        - ERS 606/PSCI 606/GGOV 621 Governing Global Food and Agriculture Systems
        - GGOV 610/PSCI 688/PACS 630 Governance of Global Economy (GV 731 at WLU)
        - GGOV 613/PSCI 668 The Politics of National Innovation Systems
        - GGOV 614/PSCI 614 Global Business and Development
        - GGOV 616/PSCI 690 Theories of Political Economy
        - GGOV 618 Special Topics in Global Political Economy
        - GGOV 619 Readings in Global Political Economy
        - HIST 606 International Development in Historical Perspective
        - PSCI 631 The State and Economic Life
        - PSCI 683 Topics in International Political Economy
        - PSCI 685 Directed Readings in International Politics
        - PSCI 689 International Political Economy
    - Wilfrid Laurier University
        - IP 622
        - IP 641
- If selecting the field of **Global Social Governance**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 642/PSCI 639 Global Social Governance (GV 735 at WLU)
        - GGOV 614/PSCI 614 Global Business and Development
        - GGOV 621/PSCI 606/ERS 606 Governing Global Food and Agriculture Systems
        - GGOV 661 International Organizations Law
        - GGOV 662/SOC 781 Global Development Governance
        - GGOV 663/PSCI 619 China and Global Governance
        - GGOV 668 Special Topics in Global Social Governance
        - GGOV 669 Readings in Global Social Governance
        - GGOV 674/PSCI 656 The Politics of Inequality

        - HIST 606 International Development in Historical Perspective
    - Wilfrid Laurier University
        - IP631
- If selecting the field of **Multilateral Institutions and Diplomacy**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 650/PSCI 657 International Organizations and Global Governance (GV 734 at WLU)
        - GGOV 653 International Organizations and Public Policy
        - GGOV 658 Special Topics in Multilateral Institutions and Diplomacy
        - GGOV 659 Readings in Multilateral Institutions and Diplomacy
        - GGOV 660/PSCI 609/SUSM 660 Public International Law
        - GGOV 661 International Organizations Law
        - GGOV 662/SOC 781 Global Development Governance
        - GGOV 663/PSCI 619 China and Global Governance
        - GGOV 664/SOC 721 Law, Tech, & Society
        - HIST 632 History of the United States I
        - HIST 633 History of the United States II
        - HIST 651 Historians and Public Policy
        - PSCI 634 Comparative Public Administration
- Students entering the PhD program from the University of Waterloo's Master of Arts (MA) program in Global Governance will have already completed GGOV 610, ECON 637, HIST 605 as well as 3 other courses.
- To meet formal course requirements for the PhD degree, these students must complete 6 new term courses that meet the following requirements.
    - In preparation for their comprehensive exam in Global Governance, 3 of these courses must be chosen from the following list of key courses.
        - University of Waterloo
            - GGOV 610/PSCI 688/PACS 630 Governance of Global Economy
            - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance
            - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems
            - GGOV 630/PSCI 678/PACS 634 Conflict and Security
            - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues
            - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
            - GGOV 641 International Human Rights
            - GGOV 650/PSCI 657 International Organizations and Global Governance
        - Wilfrid Laurier University
            - IP 622
    - Students must include courses from at least two disciplines.
    - Students must choose to specialize in one of the six fields of the program. To prepare for the comprehensive exam in that field, they must select at least 2 of their 6 courses from their chosen field (courses taken to fulfil the requirement above can be counted towards this requirement). Of these 2, at least 1 course must be a course identified as "core" for that field. The courses for each field, and the "core" courses, are listed above. The core course requirements can be waived only if students have already taken all of the core courses for their chosen field during their MA studies.
    - After students have met these various requirements, any additional courses required to meet the total of 6 new courses are elective options that can be selected from any of the program's courses.
- Students entering the PhD program from Wilfrid Laurier University's Master of International Public Policy (MIPP) program can count the following parts of the MIPP program toward their course requirements in the PhD:
- If a MIPP graduate has done the Global Governance field, they will be exempt from the program's core course.
- If a MIPP graduate has done the International Economic Relations field, they will be exempt from the Economics core component.
- If a MIPP graduate has completed equivalent courses, they will be exempt from some PhD program requirements, as decided in consultation with the Program Director. To meet their formal course requirements for the PhD degree,

these students must complete 6 new term courses that meet the following requirements.

- At least 3 of the 6 courses must be from the following list:
  - University of Waterloo
    - GGOV 610/PSCI 688/PACS 630 Governance of Global Economy
    - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance
    - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems
    - GGOV 630/PSCI 678/PACS 634 Conflict and Security
    - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues
    - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
    - GGOV 641 International Human Rights
    - GGOV 650/PSCI 657 International Organizations and Global Governance
  - Wilfrid Laurier University
    - GG 673
    - GV 750
    - GV 760
    - IP 622
- Students must include courses from at least two disciplines.
- Students must choose to specialize in one of the six fields of the program. To prepare for the comprehensive exam in that field, they must select at least 2 of their 6 courses from their chosen field (courses taken to fulfil the requirement above can be counted towards this requirement). Of these 2, at least 1 course must be a course identified as “core” for that field. The courses for each field, and the “core” courses, are listed above. The core course requirements can be waived only if students have already taken all of the core courses for their chosen field during their MA studies.
- After students have met these various requirements, any additional courses required to meet the total of 6 new courses are elective options that can be selected from any of the program’s courses.

- Students are required to maintain an overall average of 83% in the course phase.

Existing

Graduate Course Requirements

- Students must complete 6 (0.50 unit weight) courses, including the following 4 mandatory courses: the "core" course component, the "economics" component, the "history" component, and the "research methods" component.
    - Core course component (must be completed in the first term of registration in the program).
        - 1 of the following courses:
            - GGOV 700 Global Governance
            - GV 710 (at WLU)
    - Economics component
        - ECON 637 Economic Analysis and Global Governance
    - History component
        - 1 of the following courses:
            - HIST 703 The History of Global Governance
            - GV 720 (at WLU) The History of Global Governance
    - Research Methods component
        - GGOV 701 Research Methods
        - GV 701 (at WLU)
- Graduate research fields
    - Students must choose to specialize in one of the six fields of the program. To prepare for the comprehensive exam in that field, they must select at least 2 courses from their chosen field. Of these 2, at least 1 course must be a course identified as "core" for that field (marked with an asterisk in the lists below). The 6th course is an elective course.
    - Not all courses are offered each year and more courses may be available. Consult the respective departments/schools at both institutions for information on available courses in any given year. Consult the respective graduate calendars for full course descriptions.
- If selecting the field of **Conflict and Security**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 630/PSCI 678/PACS 634 (GV 733 at WLU) Security Ontology-Theory*
        - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues*
        - GGOV 632/ PSCI 654/PACS 632 Post-War Reconstruction and State Building
        - GGOV 633 Managing Nuclear Risk
        - GGOV 634 Gender and Global Politics
        - GGOV 638 Special Topics in Conflict and Security
        - GGOV 639 Readings in Conflict and Security
        - HIST 604 Theory and Practice of Insurgency and Counterinsurgency: Historical and Contemporary Issues
        - HIST 610 War and Society in the Twentieth Century
        - HIST 611 War and Society in the Twentieth Century II
        - HIST 632 History of the United States I
        - PSCI 687 Explaining Interstate War
    - Wilfrid Laurier University
        - HI 610A
        - HI 615A
        - HI 616A
        - HI 696I
        - HI 715
        - IP 631
        - PO 648
- If selecting the field of **Global Environment**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - ERS 675 Special Readings and Seminars on Selected Topics in Environment and Resource Studies

        - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance*
        - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems
        - GGOV 622 Complexity and Global Governance
        - GGOV 628 Topics in Global Environment
        - GGOV 629 Readings in Global Environment
        - GEOG 665/PLAN 665 Environmental Planning Theory and Practice
        - GEOG 668 Indigenous Environmental Management Perspectives
    - Wilfrid Laurier University
        - BU 615
        - GG 635
        - GG 660
        - GG 665
        - GG 668
        - GG 673*
        - IP 611
        - IP 612
        - IP 613/GG 664
- If selecting the field of **Global Justice and Human Rights**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World*
        - GGOV 641 (GV 760 at WLU) International Human Rights*
        - GGOV 642/PSCI 639 Global Social Governance
        - GGOV 643/PSCI 616 Global Health Governance
        - GGOV 644/SOC 784 International Migration: Practice, Theory & Regulation
        - GGOV 648 Special Topics in Global Justice and Human Rights
        - GGOV 649 Readings in Global Justice
        - HIST 603 Nationalism and Ethnic Policies of Multinational States
        - HIST 626 Modern European History I
        - HIST 627 Modern European History II
        - HIST 635 Race in Modern History I
        - HIST 636 Race in Modern History II
        - PSCI 624/PACS 660 Justice and Gender
    - Wilfrid Laurier University
        - GV 760*
        - HI 715
        - IP 632
        - PO 644
        - PO 652
        - PO 671
        - PO 692D
- If selecting the field of **Global Political Economy**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - ECON 631 International Trade
        - ECON 635 International Trade & Development
        - ERS 606/PSCI 606/GGOV 621 Governing Global Food and Agriculture Systems
        - GGOV 610/PSCI 688/PACS 630 Governance of Global Economy*
        - GGOV 613/PSCI 668 The Politics of National Innovation Systems
        - GGOV 614/PSCI 614 Global Business and Development
        - GGOV 618 Special Topics in Global Political Economy
        - GGOV 619 Readings in Global Political Economy

        - HIST 606 International Development in Historical Perspective
        - PSCI 631 The State and Economic Life
        - PSCI 683 Topics in International Political Economy
        - PSCI 685 Directed Readings in International Politics
        - PSCI 689 International Political Economy
    - Wilfrid Laurier University
        - BU 633
        - BU 643
        - BU 701
        - BU 733
        - EC 649
        - IP 622*
        - IP 641
        - PO 640
- If selecting the field of **Global Social Governance**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 642/PSCI 639 Global Social Governance*
        - GGOV 614/PSCI 614 Global Business and Development
        - GGOV 621/PSCI 606/ERS 606 Governing Global Food and Agriculture Systems
        - GGOV 643/PSCI 616 Global Health Governance
        - GGOV 661 International Organizations Law
        - GGOV 662/SOC 781 Global Development Governance
        - GGOV 663/PSCI 619 China and Global Governance
        - GGOV 668 Special Topics in Global Social Governance
        - GGOV 669 Readings in Global Social Governance
        - HIST 606 International Development in Historical Perspective
    - Wilfrid Laurier University
        - PO670
        - IP631
- If selecting the field of **Multilateral Institutions and Diplomacy**, students must choose at least 2 courses from among the following offerings at the partner universities:
    - University of Waterloo
        - GGOV 650/PSCI 657 International Organizations and Global Governance*
        - GGOV 653 International Organizations and Public Policy
        - GGOV 658 Special Topics in Multilateral Institutions and Diplomacy
        - GGOV 659 Readings in Multilateral Institutions and Diplomacy
        - HIST 632 History of the United States I
        - HIST 633 History of the United States II
        - HIST 651 Historians and Public Policy
        - PSCI 634 Comparative Public Administration
    - Wilfrid Laurier University
        - BU 808
        - HI 768
        - PO 641
        - PO 642
        - PO 649
        - PO 670
- Students entering the PhD program from the University of Waterloo's Master of Arts (MA) program in Global Governance will have already completed GGOV 610, ECON 637, HIST 605 as well as 3 other courses.
- To meet formal course requirements for the PhD degree, these students must complete 6 new term courses that meet the following requirements.

- In preparation for their comprehensive exam in Global Governance, 3 of these courses must be chosen from the following list of key courses.
  - University of Waterloo
    - GGOV 610/PSCI 688/PACS 630 Governance of Global Economy
    - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance
    - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems
    - GGOV 630/PSCI 678/PACS 634 Security Ontology-Theory
    - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues
    - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
    - GGOV 641 International Human Rights
    - GGOV 650/PSCI 657 International Organizations and Global Governance
  - Wilfrid Laurier University
    - GG 673
    - GV 750
    - GV 760
    - IP 622
- Students must include courses from at least two disciplines.
- Students must choose to specialize in one of the six fields of the program. To prepare for the comprehensive exam in that field, they must select at least 2 of their 6 courses from their chosen field (courses taken to fulfil the requirement above can be counted towards this requirement). Of these 2, at least 1 course must be a course identified as “core” for that field. The courses for each field, and the “core” courses, are listed above. The core course requirements can be waived only if students have already taken all of the core courses for their chosen field during their MA studies.
- After students have met these various requirements, any additional courses required to meet the total of 6 new courses are elective options that can be selected from any of the program’s courses.

- Students entering the PhD program from Wilfrid Laurier University’s Master of International Public Policy (MIPP) program can count the following parts of the MIPP program toward their course requirements in the PhD:
- If a MIPP graduate has done the Global Governance field, they will be exempt from the program’s core course.
- If a MIPP graduate has done the International Economic Relations field, they will be exempt from the Economics core component.
- If a MIPP graduate has completed equivalent courses, they will be exempt from some PhD program requirements, as decided in consultation with the Program Director. To meet their formal course requirements for the PhD degree, these students must complete 6 new term courses that meet the following requirements.
  - At least 3 of the 6 courses must be from the following list:
    - University of Waterloo
      - GGOV 610/PSCI 688/PACS 630 Governance of Global Economy
      - GGOV 620/ERS 604/PSCI 604 Advanced Topics in Global Environmental Governance
      - GGOV 621/ERS 606/PSCI 606 Governing Global Food and Agriculture Systems
      - GGOV 630/PSCI 678/PACS 634 Security Ontology-Theory
      - GGOV 631/PSCI 679/PACS 635 Security Governance: Actors, Institutions, and Issues
      - GGOV 640/PSCI 658/PACS 633 Human Rights in the Globalized World
      - GGOV 641 International Human Rights
      - GGOV 650/PSCI 657 International Organizations and Global Governance
    - Wilfrid Laurier University
      - GG 673
      - GV 750
      - GV 760
      - IP 622
  - Students must include courses from at least two disciplines.
  - Students must choose to specialize in one of the six fields of the program. To prepare for the comprehensive exam in that field, they must select at least 2 of their 6 courses from their chosen field (courses taken to fulfil the requirement above can be counted towards this requirement). Of these 2, at least 1 course must be a

course identified as “core” for that field. The courses for each field, and the “core” courses, are listed above. The core course requirements can be waived only if students have already taken all of the core courses for their chosen field during their MA studies.
    - After students have met these various requirements, any additional courses required to meet the total of 6 new courses are elective options that can be selected from any of the program’s courses.
- Students are required to maintain an overall average of 83% in the course phase.

Milestone Requirements

PhD Seminar

- The PhD Seminar requires attendance year long at departmental colloquia, seminars and related presentations, including public lectures at The Centre for International Governance Innovation, and area universities. Credit for the PhD Seminar will be assigned by the Program Director/Associate Director (equivalent to University of Waterloo Graduate Chair) on a credit/non-credit basis. The Seminar is designed to provide structured opportunities for meaningful interaction among students, with faculty and with outside researchers and policymakers, as well as to expose incoming PhD students to the range of opportunities for learning in the area of global governance within the Waterloo community.

PhD Internship

- Students may complete a four-to-eight month internship working on global governance issues in the public or private sector, at a research institute, or for a non-governmental organization. The “work-term,” for which no formal credit will be offered, would normally take place during the student’s second year in the PhD program.

PhD Comprehensive Examination I and PhD Comprehensive Examination II

- Students are required to meet the University-level PhD 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. Note: in Global Governance, the committee composition may include faculty from Wilfrid Laurier University due to the joint nature of the PhD program.
    - 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 PhD Comprehensive Examination minimum requirements, students in the PhD in Global Governance program are also required to meet the following requirements:
    - Students write the core Global Governance exam based on a reading list of fifty (50) works set by the core Examination Committee which is normally comprised of three faculty members, at least one of whom would have taught the Global Governance, Methods, History or Economics courses (faculty may be from either the University of Waterloo or Wilfrid Laurier University due to the joint nature of the PhD program). The list of readings will be agreed upon by all committee members and sent to the students by May 1. The students will write the Global Governance exam in the beginning of September of Year Two.
    - Students then write a field exam related to the field of their proposed thesis topic. The field exam is set by a committee comprised normally of the student’s supervisor, the faculty member who taught the field course, and a third faculty member (faculty may be from either the University of Waterloo or Wilfrid Laurier University due to the joint nature of the PhD program). The field exam reading list will be finalized by the field committee in consultation with the student by May 1. The students will write their field exam two weeks after their core Global Governance exam.
    - Outcomes of the comprehensive exam:
        - Students will receive one of three evaluations of their comprehensive exam: Passed, Passed Conditionally, and Reexamination. The Examination Committee’s evaluation will be determined by majority vote, with the one exception that a student will receive an evaluation of “Passed Conditionally” where the committee returns one vote for “Passed Conditionally” and two votes for “Reexamination.” When a student receives an evaluation of “Passed Conditionally,” the Program Director/Associate Director (equivalent to University of Waterloo Graduate Chair) will provide the student within ten (10) business days with a written report from the Examination Committee that outlines specifically those parts of the student’s examination that the student will need to elaborate upon and/or clarify. The student will then have thirty (30) days to submit a written response of no more than 1,000 words in

which they will outline clarifications and/or revisions. The committee will then evaluate the response and determine by majority if the student has met the requirements for a "Pass." If a student fails the first sitting of their examination, either after the initial written attempt or after the Passed Conditionally stage, they have the option to sit the examination a second time. When a student is re-examined, the outcomes are limited to: Passed, and Exam Unsuccessful. A result of Exam Unsuccessful will normally lead to expulsion from the doctoral program.

PhD Thesis Proposal

- Successful completion of the comprehensive examinations allows students to progress to the thesis proposal stage. Normally, students will defend their thesis proposal before a formal thesis supervisory committee at the midway point of year two in the program. This defence can take place no later than 18 months after a student's entry into the program. A thesis supervisory committee, normally composed of a supervisor and two core faculty of the Global Governance program, will be formed by the student with the agreement of the Program Director/Associate Director (equivalent to University of Waterloo Graduate Chair). The student will be required to submit a thesis proposal to the committee. The committee will meet with the student to discuss the proposal. Upon formal approval, the student proceeds to the research and writing of the thesis. Students who fail to satisfy this requirement within the established time frame may be required to withdraw from the program.

PhD Thesis

- Normally, students should complete and defend the thesis within four years of starting the program. When a thesis is completed to the satisfaction of the supervisor, the thesis will be referred to the other members of the supervisory committee. After all committee members are satisfied with the thesis, including completion of revisions recommended by the committee, an oral defence will be scheduled. The regulations and procedures at the university where the student is registered will govern both the thesis and the examination formats and the composition of the thesis examining committee.

Other requirements

- Language Requirement: prior to completion of the third year, students whose doctoral thesis is concerned with a non-English speaking country or region will be required to demonstrate proficiency in the language of that country. To fulfill the requirement, students will need to demonstrate proficiency in the second language, and may do so by completing designated language courses at either the University of Waterloo or Wilfrid Laurier University. Where there are no courses available, the Program Director/Associate Director (equivalent to University of Waterloo Graduate Chair) will determine the time and method of language assessment, in consultation with the student. The language requirement must be met before the doctoral student proceeds to the thesis stage.

Notes

- Balsillie School of International Affairs website
- Doctor of Philosophy (PhD) in Global Governance future students program page

Workflow Information

Workflow Path	Faculty/AFIW Path(s) for Workflow	Senate Workflow
Committee approvals	Faculty of Arts	--

Dependencies

Dependent Courses and Programs/Plans

PREREQUISITES

- GGOV 700 - Global Governance — View Courses
- GGOV 701 - Research Methods — View Courses
- GGOV 600 - Global Governance — View Courses
- GGOV 610 - Governance of Global Economy — View Courses

ARTS 690
Graduate Topics in Arts Disciplines

Under Review | Fall 2025

Proposal Information

Workflow Status

In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career

Graduate

Important!

Quest Course ID

Effective Term and Year

Fall 2025

Offering Number

Proposal Details

Proposal Type

New

Academic Unit Approval

Rationale for New Course

Special Topics courses are common within specific programs and plans at both the undergraduate and graduate levels. Exclusive to the undergraduate program are Faculty of Arts special courses (ARTS 190, 290, 390, and 490) that are available to host by any instructor, and are often used to indicate an interdisciplinary topic open to all ARTS students. The creation of ARTS 690 parallels the undergraduate special topics courses and is intended for similar purposes. ARTS 690 might also be useful as the course code for transfer credit from another institution that does not neatly fit into a plan's specific courses and content.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Arts

Academic Unit
Dean of Arts Office

Subject Code
ARTS

Number
690

Title
Graduate Topics in Arts Disciplines

Abbreviated Title
Grad Special Topics

Description
This topics course will be offered from time to time by particular disciplines in Arts to cover areas of emerging research and teaching interest, and for courses with interdisciplinary content offered to graduate students across the Faculty and wider university, regardless of specific discipline, and for which no other suitable course subject code is available.

Units
0.50

Exceptions to fees or academic progress units

Components
SeminarLecture

Primary Component
Seminar

Grading Information

Grading Basis
Student Option

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
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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

FACULTY OF ENVIRONMENT - GRADUATE STUDIES COMMITTEE

REPORT TO SENATE GRADUATE & RESEARCH COUNCIL

June 2025 (Minor Modifications)

1. Course Changes

    a. GEMCC 652 - *To add anti-requisites for undergraduate courses that are held with the course or have course material overlap*

    b. PLAN 627 - *To add anti-requisites for undergraduate courses that are held with the course or have course material overlap.*

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

Faculty: Environment

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Adding the following anti-requisites:
Not completed nor concurrently enrolled in:
PLAN 348 – Planning to Confront Climate Change (0.50)
PLAN 419 – Planning Climate Change and Community (0.50)
PLAN 474 – Topic 38: Climate Change and Community Planning (0.05)
Note: all other course elements are being retained.

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

Course subject code: GEMCC

Course number: 652

Course ID: 015718

Course title (max. 100 characters including spaces): Climate Change and Community Planning

Course short title (max. 30 characters including spaces): Climate Change Community Plan

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: Climate change has complex implications for communities across Canada and Planners are

at the forefront of developing and implementing strategies to both reduce greenhouse gas (GHG) emissions and build resilience to current and future climate. This course focuses on some of the opportunities and challenges associated with the integration of climate change into urban and rural planning, including climate vulnerability of urban systems, low-carbon transport systems, urban greening and green infrastructure for climate resilience, regenerative designs that reduce social vulnerability, the role of information and communication technologies for system efficiency and resilience, and assessing synergies and conflicts between mitigation and adaptation. Leading policy and design cases from communities across Canada and internationally will be examined.

Meet type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary meet type: Lecture

Delivery mode: Only offered online

Antirequisites:

Not completed nor concurrently enrolled in:
PLAN 348 – Planning to Confront Climate Change (0.50)
PLAN 419 – Planning Climate Change and Community (0.50)
PLAN 474 – Topic 38: Climate Change and Community Planning (0.05)

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☒ No ☐

Course subject code(s) and number(s) to be cross-listed with and approval status:

GEMCC 652 and PLAN 627 are currently cross-listed and that element will be retained.

Sections combined/held with:

Rationale for request:

To add anti-requisites for undergraduate courses that are held with the course or have course material overlap.

Form completed by: Teresa Wilson
Department/School approval date (mm/dd/yy): 04/02/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/19/25
Faculty approval date (mm/dd/yy): 05/30/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Environment

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Adding the following anti-requisites:
Not completed nor concurrently enrolled in:
PLAN 348 – Planning to Confront Climate Change (0.50)
PLAN 419 – Planning Climate Change and Community (0.50)
PLAN 474 – Topic 38: Climate Change and Community Planning (0.50)
Note: all other course elements are being retained.

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

Course subject code: PLAN

Course number: 627

Course ID: 015718

Course title (max. 100 characters including spaces): Climate Change and Community Planning

Course short title (max. 30 characters including spaces): Climate Change Community Plan

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description: Climate change has complex implications for communities across Canada and Planners are

at the forefront of developing and implementing strategies to both reduce greenhouse gas (GHG) emissions and build resilience to current and future climate. This course focuses on some of the opportunities and challenges associated with the integration of climate change into urban and rural planning, including climate vulnerability of urban systems, low-carbon transport systems, urban greening and green infrastructure for climate resilience, regenerative designs that reduce social vulnerability, the role of information and communication technologies for system efficiency and resilience, and assessing synergies and conflicts between mitigation and adaptation. Leading policy and design cases from communities across Canada and internationally will be examined.

Meet type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary meet type: Lecture

Delivery mode: Only offered online

Antirequisites:

Not completed nor concurrently enrolled in:
PLAN 348 – Planning to Confront Climate Change (0.50)
PLAN 419 – Planning Climate Change and Community (0.50)
PLAN 474 – Topic 38: Climate Change and Community Planning (0.05)

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☒ No ☐

Course subject code(s) and number(s) to be cross-listed with and approval status:

PLAN 627 and GEMCC 652 are currently cross-listed and that element will be retained.

Sections combined/held with:

Rationale for request:

To add anti-requisites for undergraduate courses that are held with the course or have course material overlap.

Form completed by: Tracey Beirness
Department/School approval date (mm/dd/yy): 04/11/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/19/25
Faculty approval date (mm/dd/yy): 05/30/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

Grad Motions for SGRC – June 16, 2025

Motion/Package	total # program/course change forms	Unit	Target Effective Date
Change HLTH 631 course description	1	SPHS Professional	Fall 2025
Course number and suffix changes	6	SPHS Professional	Fall 2025
Split HLTH 613 to HLTH 645M and 646M	3	SPHS Professional	Fall 2025
MHIA program - course number changes	1	SPHS Professional	Fall 2025
KIN 646 description change	1	KHS	Fall 2025
KIN 670A/B Masters Thesis Seminar - New Courses	4	KHS	Fall 2025
AHWB PhD change to program requirements in calendar	1	KHS	Fall 2025

Motions for the SPHS Professional Graduate Programs

1. **First we will start with a motion to change HLTH 631 Public Health Surveillance course description to more accurately reflect the current course content.**
   CURRENT:
   Fundamental principles of public health surveillance and monitoring, describe the source of public health data in Canada and other countries. Topics covered include forecasting, information management and organization, and technological innovations for assessment, evaluation and program delivery.

   NEW/REVISION:
   This course covers the fundamental principles of public health surveillance and monitoring, specifically the systematic collection, analysis, interpretation, and dissemination of health-related data on an ongoing basis to inform public health action. Topics covered include data and systems in Canada and other countries, current techniques, information management and organization, and methods for assessment, evaluation, and program delivery.

2. **Next we have a series of motions for the modular courses that have been developed to cue students that the courses are 0.25 unit weight and also to avoid any confusion about our series of A/B courses that already exist.**

   We are updating the course number from an A/B course number to an M suffix to reflect the course is a 6-week modular course “M”. These course numbers are unused numbers in the Graduate Academic Calendar for the HLTH subject. This will eliminate any confusion students may have with the “A” and “B” letters used to differentiate courses that are on-campus and courses that are online, and that are 0.50 credit courses, not 0.25 credit modular courses.

a. Change HLTH 649A Ethics and Privacy Considerations for Digital Technology and AI in Health to **HLTH 648M Ethics and Privacy Considerations for Digital Technology and AI in Health.**

i. This course will be during the same term as HLTH 649M Leadership in Digital Health and Transformation but is not linked to the HTLH 649M course.

b. Change HLTH 649B Leadership in Digital Health and Transformation to **HLTH 649M Leadership in Digital Health and Transformation**

i. This course will be during the same term as HLTH 648M Ethics and Privacy Considerations for Digital Technology and AI in Health.

c. Change HLTH 650A Application of Artificial Intelligence in Health to **HLTH 657M Application of Artificial Intelligence in Health**

i. This course will be offered during the same term as HLTH 658M Machine Learning Techniques in Health.

d. Change HLTH 650B Machine Learning Techniques in Health to **HLTH 658M Machine Learning Techniques in Health**

i. This course will be offered during the same term as HLTH 657M Application of Artificial Intelligence in Health

e. Change HLTH 718A Advanced Artificial Intelligence in Health I to **HLTH 717M Advanced Artificial Intelligence in Health I**

i. This course will be offered during the same term as HLTH 718M Advanced AI in Health II – Natural Language Processing Algorithm and Application in Health

f. Change HLTH 718B Advanced AI in Health II – Natural Language Processing Algorithm and Application in Health to **HLTH 718M Advanced AI in Health II – Natural Language Processing Algorithm and Application in Health**

i. This course will be offered during the same term as HLTH 717M Advanced Artificial Intelligence in Health I

3. Next, we want to split HLTH 613 into two modular courses. The purpose of this change is to continue to add flexibility for students wanting to take one six-week module.

i. Motion to change HLTH 613 Information Technology for the Health Professional to two 6 week modules: **HLTH 645 M Information Technology Fundamentals for Health Professionals and HLTH 646 M Applications and Evaluation of Health Information Technology**

1. The two six-week modules will be offered during the same term.

Summary of course number and suffix changes

Current course number and suffix	New course number and suffix
649A	648M
649B	649M

650A	657M
650B	658M
718A	717M
718B	718M
613	645M
613	646M

4. **Finally, because the changes to the MHIA program course numbers require changes to the program requirements in the Graduate Studies Academic Calendar, we have a motion to change the course numbers in the program revision form.**

Motions for KHS Graduate Programs

1. **KIN 646 Description Change**

   KIN 664 is held with KIN 446. The KIN 664 course description is being updated to match the KIN 446 description.

   a. Current description: Selected nutrients will be examined in detail in regards to dietary intake, metabolism, metabolism and mechanistic effects on human health. Comprehensive coverage of nutrients is not intended, but the specific nutrients examined will include at least one example each from lipids, proteins, carbohydrates, water soluble vitamins, lipid soluble vitamins and minerals.
   b. Revised description: Selected examples of nutrient metabolism will be examined in detail in regard to dietary intake, metabolism, and mechanistic effects on human health. Comprehensive coverage of all nutrients is not intended, but rather the examples will be examined in detail with a focus on research techniques and approaches, and various factors that interact with and influence nutrition.

2. **Masters Thesis Seminar Requirements**
   c. Both MSc and MSc Aeronautics have a grad calendar revision that includes the additional requirement of the new course KIN 670a,b.
      i. The addition of this course to our offerings will reduce some of the administrative burden of scheduling multiple seminar spaces by allowing for the course to be included in advance course scheduling.
   d. Seminar Milestone will remain, as written, in the graduate calendar for MSc, MSc Aero. No course requirement or enrolment required.
   e. All students will have clear expectations about attendance and objectives.
      i. A course objectives document/guideline should be circulated/made available (see summary below).

2. **PhD Seminar Requirements**
   a. No revisions to course calendar for PhD and PhD Aero; no enrolment required.

b. PhD AHWB currently do NOT have the same PhD Seminar requirement for this program, and will need to be added to match the language in the grad calendar for other two programs
    i. AHWB students, as well as Aero students, currently take 1.0 credits above our "regular" requirements.
        - One is a lecture type course; the other is more seminar focused.
        - Addition of the PhD seminar ensure they stay active/engaged with their cohort/peers in our KHS programming.
    ii. See Summary of expectations (below) and PhD Seminar Objectives document

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Updating the course description.

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

Course subject code: HLTH

Course number: 631

Course ID:

Course title (max. 100 characters including spaces): Public Health Surveillance

Course short title (max. 30 characters including spaces): Public Health Surveillance

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description:

CURRENT:

Fundamental principles of public health surveillance and monitoring, describe the source of public health data in Canada and other countries. Topics covered include forecasting, information management and organization, and technological innovations for assessment, evaluation and program delivery.

NEW/REVISION:

This course covers the fundamental principles of public health surveillance and monitoring, specifically the systematic collection, analysis, interpretation, and dissemination of health-related data on an ongoing basis to inform public health action. Topics covered include data and systems in Canada and other countries, current techniques, information management and organization, and methods for assessment, evaluation, and program delivery.

Meet type(s): Choose an item. Choose an item. Choose an item. Choose an item.

Primary meet type: Lecture

Delivery mode: Choose an item.

Requisites: Must have completed at least 1 of the following: HLTH606A, HLTH606B, HSG606, or PHS606

Must be enrolled in Master of Health Evaluation (MHE), Master of Health Informatics (MHI), Master of Public Health (MPH), MSc in Public Health Sciences, MSc in Public Health Sciences-Water, PhD in Public Health Sciences, PhD in Public Health Sciences-Aging, Health & Well-Being, or PhD in Public Health Sciences-Water

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

Description revised to:
- fix a grammatical error and make language consistent with other SPHS courses
- clarify for prospective students what 'public health surveillance' is (since 'surveillance' can mean different things in different disciplines)
- use higher level descriptions, thus allowing for flexibility in what aspects of topics get emphasized, depending on the instructor/term and developments in the field.

Form completed by:
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Changing the HLTH 649A course number to HLTH 648M.

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

Course subject code: HLTH

Course number: 648M

Course ID:

Course title (max. 100 characters including spaces): Ethics and Privacy Considerations for Digital Technology and AI in Health

Course short title (max. 30 characters including spaces): Ethics and Privacy in HI

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course description: This course will explore the legal, ethical, and policy implications of the use of digital technology, artificial intelligence and big data applications in healthcare and public health.

Meet type(s): Seminar Choose an item. Choose an item. Choose an item.

Primary meet type: Seminar

Delivery mode: On-campus and also offered online

Requisites: N/A

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

We are updating the course number from 649A to 648M to reflect the course is a 6-week modular course "M". It goes with HLTH 649M - the Leadership in DHT course. These course numbers are unused numbers in the Graduate Studies Academic Calendar for the HLTH subject. This will eliminate any confusion students may have with the "A" and "B" letters used to differentiate courses that are on-campus and courses that are online and that are 0.50 credit courses, not 0.25 credit modular courses.

Form completed by: Michelle Fluit and Jennifer Yessis
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Changing the HLTH 649B course number to HLTH 649M.

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

Course subject code: HLTH

Course number: 649M

Course ID:

Course title (max. 100 characters including spaces): Leadership in Digital Health and Transformation

Course short title (max. 30 characters including spaces): Leadership in DHT

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course description: This course equips students to effectively drive innovation and transformation in the rapidly evolving landscape of digital health. Students will engage in case studies and projects that simulate real-world digital health initiatives, learning essential leadership skills to identify business and clinical needs, manage change, and oversee budget and project management. Designed for future leaders in the field, this course offers practical insights and strategies to navigate and influence advancements in digital health.

Meet type(s): Seminar Choose an item. Choose an item. Choose an item.

Primary meet type: Seminar

Delivery mode: On-campus and also offered online

Requisites: None

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

We are updating the course number from 649B to 649M to reflect the course is a 6-week modular course "M". It goes with HLTH 648M - the Ethics and Privacy course. These course numbers are unused numbers in the Graduate Studies Academic Calendar for the HLTH subject. This will eliminate any confusion students may have with the "A" and "B" letters used to differentiate courses that are on-campus and courses that are online and that are 0.50 credit courses, not 0.25 credit modular courses.

Form completed by: Helen Chen and Michelle Fluit
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Changing the HLTH 650A course number to HLTH 657M. The instructor consent requirement is being removed from the course. HLTH 605B is being added as a prerequisite.

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

Course subject code: HLTH

Course number: 657M

Course ID:

Course title (max. 100 characters including spaces): Application of Artificial Intelligence in Health

Course short title (max. 30 characters including spaces): AI Application in Health

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course 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.

Meet type(s): Lecture Reading Choose an item. Choose an item.

Primary meet type: Lecture

Delivery mode: On-campus and also offered online (hybrid)

Prerequisites: HLTH 605B

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

We are updating the course number from 650A to 657M to reflect the course is a 6-week modular course "M". It goes with HLTH 658M – Machine learning Techniques in Health course. These course numbers are unused numbers in the Graduate Studies Academic Calendar for the HLTH subject. This will eliminate any confusion students may have with the "A" and "B" letters used to differentiate courses that are on-campus and courses that are online, and that are 0.50 credit courses, not 0.25 credit modular courses.
No instructor consent required. The pre-requisite is being added to ensure that students have the sufficient background to succeed in the course.

Form completed by: Michelle Fluit and Jennifer Yessis
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Changing the HLTH 650B course number to HLTH 658M. The instructor consent requirement is being removed from the course. HLTH 650A is being removed as a prerequisite. HLTH 605B is being added as a prerequisite.

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

Course subject code: HLTH

Course number: 658M

Course ID:

Course title (max. 100 characters including spaces): Machine Learning Techniques in Health

Course short title (max. 30 characters including spaces): Machine Learning Techniques

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course 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,

unsurprised 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.

Meet type(s): Lecture Lab Tutorial Choose an item.

Primary meet type: Lecture

Delivery mode: On-campus and also offered online (hybrid)

Prerequisites: HLTH 605B

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

We are updating the course number from 650B to 658M to reflect the course is a 6-week modular course "M". It goes with HLTH 657M – Applications of Artificial Intelligence in Health. These course numbers are unused numbers in the Graduate Studies Academic Calendar for the HLTH subject. This will eliminate any confusion students may have with the "A" and "B" letters used to differentiate courses that are on-campus and courses that are online, and that are 0.50 credit courses, not 0.25 credit modular courses.
No instructor consent or pre-requisite of HLTH 657M (courses are offered in the same term).

Form completed by: Helen Chen and Michelle Fluit
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Changing the HLTH 718A course number to HLTH 717M. The instructor consent requirement is being removed from the course. HLTH 619 and HLTH 650B are being removed as prerequisites. HLTH 605B is being added as a prerequisite.

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

Course subject code: HLTH

Course number: 717M

Course ID:

Course title (max. 100 characters including spaces): Advanced Artificial Intelligence in Health I

Course short title (max. 30 characters including spaces): AI In Health I

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course 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.

Meet type(s): Seminar Tutorial Lab Reading

Primary meet type: Seminar

Delivery mode: On-campus and also offered online (hybrid)

Prerequisites: HLTH 605B

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

We are updating the course number from HLTH 718A course number to HLTH 717M to reflect the course is a 6-week modular course "M". It goes with HLTH 718M – Natural Language Processing Algorithm and Application in Health course. These course numbers are unused numbers in the Graduate Studies Academic Calendar for the HLTH subject. This will eliminate any confusion students may have with the "A" and "B" letters used to differentiate courses that are on-campus and courses that are online, and that are 0.50 credit courses, not 0.25 credit modular courses. No instructor consent required. The pre-requisite is being added to ensure that students have the sufficient background to succeed in the course

Form completed by: Michelle Fluit/Jennifer Yessis
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Changing the HLTH 718B course number to HLTH 718M. The instructor consent requirement is being removed from the course. HLTH 619 and HLTH 650B are being removed as prerequisites. HLTH 658M is being added as a prerequisite.

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

Course subject code: HLTH

Course number: 718M

Course ID:

Course title (max. 100 characters including spaces): Natural Language Processing Algorithm and Application in Health

Course short title (max. 30 characters including spaces): NLP In Health

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course 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.

Meet type(s): Lecture Tutorial Lab Reading Seminar

Primary meet type: Seminar

Delivery mode: On-campus and also offered online (hybrid)

Prerequisites: HLTH 658M

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

We are updating the course number from HLTH 718B course number to HLTH 718M to reflect the course is a 6-week modular course "M". It goes with HLTH 717M – Advanced Artificial Intelligence in Health I course. These course numbers are unused numbers in the Graduate Studies Academic Calendar for the HLTH subject. This will eliminate any confusion students may have with the "A" and "B" letters used to differentiate courses that are on-campus and courses that are online, and that are 0.50 credit courses, not 0.25 credit modular courses.
No instructor consent. The pre-requisite is being added to ensure that students have the sufficient background to succeed in the course

Form completed by: Michelle Fluit
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Winter 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 ID, 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*):

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

Course subject code: HLTH

Course number: 613

Course ID:

Course title (max. 100 characters including spaces): Information Technology for the Health Professional

Course short title (max. 30 characters including spaces):

Grading basis: Choose an item.

Course credit weight: Choose an item.

Course consent required: Choose an item.

Course description:

Meet type(s): Choose an item. Choose an item. Choose an item. Choose an item.

Primary meet type: Choose an item.

Delivery mode: Choose an item.

Requisites:

Special topics course: Yes ☐ No ☐

Cross-listed course: Yes ☐ No ☐

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

To better accommodate students with diverse IT backgrounds and learning needs, we have divided HLTH 613 into two distinct courses: HLTH 645M (Information Technology Fundamentals for Health Professionals) and HLTH 646M (Applications and Evaluation of Health Information Technology). This change offers greater flexibility, enabling students to choose the course that best aligns with their prior experience and professional objectives.

Form completed by:
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

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

Course subject code: HLTH

Course number: 645M

Course ID:

Course title (max. 100 characters including spaces): Information Technology Fundamentals for Health Professionals

Course short title (max. 30 characters including spaces): IT Fundamentals for Health

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course description: This course provides health professionals with a foundational understanding of information technology (IT) in healthcare. Students will explore essential IT concepts, including computer hardware, software, networking, databases, and security, with a focus on their roles in health information systems. Through hands-on exercises and real-world examples, students will learn how health data is collected, stored, retrieved, and protected in modern healthcare and public health environments.

Meet type(s): Seminar Reading Tutorial Choose an item.

Primary meet type: Seminar

Delivery mode: Only offered online

Requisites:

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

To better accommodate students with diverse IT backgrounds and learning needs, we have divided HLTH 613 into two distinct courses: HLTH 645M (Information Technology Fundamentals for Health Professionals) and HLTH 646M (Applications and Evaluation of Health Information Technology). This change offers greater flexibility, enabling students to choose the course that best aligns with their prior experience and professional objectives.

Form completed by:
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

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

Course subject code: HLTH

Course number: 646M

Course ID:

Course title (max. 100 characters including spaces): Applications and Evaluation of Health Information Technology

Course short title (max. 30 characters including spaces): Health IT in Practice

Grading basis: Numerical

Course credit weight: 0.25

Course consent required: Not required

Course description: This course focuses on the practical applications of Health IT, examining how digital health technologies support healthcare delivery, public health, and research. Students will explore health IT system architectures, technology assessment frameworks, and emerging innovations such as cloud computing, mobile health (mHealth), data analytics, and artificial intelligence. Through case studies and hands-on projects, students will evaluate and design IT solutions to improve population health and healthcare operations..

Meet type(s): Seminar Reading Tutorial Choose an item.

Primary meet type: Seminar

Delivery mode: Only offered online

Requisites:

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:

Sections combined/held with:

Rationale for request:

To better accommodate students with diverse IT backgrounds and learning needs, we have divided HLTH 613 into two distinct courses: HLTH 645M (Information Technology Fundamentals for Health Professionals) and HLTH 646M (Applications and Evaluation of Health Information Technology). This change offers greater flexibility, enabling students to choose the course that best aligns with their prior experience and professional objectives.

Form completed by:
Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

Graduate Studies
Program Revision Template

Prior to form submission, review the content revision instructions and information regarding major/minor modifications. For questions about the form submission, contact Trevor Clews, Graduate Studies and Postdoctoral Affairs (GSPA).

Faculty: Health

Program: Master of Health Informatics and Analytics (MHIA)

Program contact name(s): Jennifer Yessis, Michelle Fluit

Form completed by: Jennifer Yessis, Michelle Fluit

Description of proposed changes:
Note: changes to courses and milestones also require the completion/submission of the SGRC Graduate Studies Course/Milestone Form.

We are updating the course numbers and suffixes to reflect when a course is a 6-week modular course "M". These course numbers and letters are unused in the Graduate Studies Academic Calendar for the HLTH subject. This will eliminate any confusion students may have with the "A" and "B" letters currently used to differentiate courses that are on-campus and courses that are online, and that are 0.50 credit courses, not 0.25 credit modular courses. Adding clear language about the generalist MHIA option available for students who are not specializing in one of the existing specializations.

Is this a major modification to the program? No

Rationale for change(s):

This change will eliminate any confusion students may have with the "A" and "B" letters currently used to differentiate courses that are on-campus (A) and courses that are online (B), and that are 0.50 credit courses, not 0.25 credit modular courses.

Proposed effective date: Term: Fall Year: 2025

Current Graduate Studies Academic Calendar (GSAC) page (include the link to the web page where the changes are to be made):

https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/programs/rJMTx1CAin

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
Course requirements • The MHIA program requires the successful completion of 10 graduate-level courses (6.0 units of courses in total) (note: full credit courses are worth 0.5 units. Half credit modular courses are worth 0.25 units). 8 (including the practicum course) of the 10 courses are required core courses. The remaining 2 courses are electives. Alternatively, students may choose to pursue	**Course requirements** • The MHIA program requires the successful completion of 10 graduate-level courses (6.0 units of courses in total) (note: full credit courses are worth 0.5 units. Half credit modular courses are worth 0.25 units). 8 (including the practicum course) of the 10 courses are required core courses. The remaining 2 courses are electives. Alternatively, students may choose to pursue

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:

one of the Graduate Specializations outlined below.
• Students are required to complete the following core courses in List A:
  ○ HLTH 605B Quantitative Methods and Analysis (0.5 unit weight)
  ○ HLTH 612/CS 792 Data Structures and Standards in Health Informatics (0.5 unit weight)
  ~~○ HTLH 613 Information Technology for the Health Professional (0.5 unit weight)~~
  ○ HLTH 640 Professional Experience Practicum (1.5 unit weight)
  ○ ~~HLTH 649A Privacy and Ethics (0.25 unit weight) and~~ HLTH 649~~B~~ Leadership in Digital Transformation (0.25 unit weight)
• Students are required to complete~~ 3 core~~ courses ~~(1.50 units total)~~ from List B:
  ○ CS 634 Security and Privacy in Health Systems (0.5 unit weight)
  ○ CS 638 Principles of Data Management (0.5 unit weight)
  ○ HLTH 615 Requirements Specification and Analysis in Health Systems (0.5 unit weight)
  ○ HLTH 619 Fundamental Research Methods in Health Informatics (0.5 unit weight)
  ○ ~~HLTH 650A~~ Application of Artificial Intelligence in Health (0.25 unit weight) and ~~HLTH 650B~~ Machine Learning Techniques in Health (0.25 unit weight)
  ○ ~~HLTH 718A~~ Advanced Artificial Intelligence in Health I ~~(0.5 unit weight)~~
  ○ ~~HLTH 718B~~ Natural Language Processing Algorithm and Application in Health (~~0.5 unit weight)~~
• Elective courses (choose~~ 2~~ from List C):
  ○ HLTH 603 Health Policy in Public Health (0.5 unit weight)
  ○ HLTH 608 Health and Risk Communication in Public Health (0.5 unit weight)
  ○ HLTH 609 Management and Administration of Public Health Services (0.5 unit weight)
  ○ HLTH 611 Health Care System (0.5 unit weight)
  ○ HLTH 614 Evaluation of Public Health Programs (0.5 unit weight)
  ○ HLTH 620 Pandemic Preparedness (0.5 unit weight)
	one of the Graduate Specializations outlined below.
	• Students <u>in the generalist option</u> are required to complete the following core courses in List A:
	  ○ HLTH 605B Quantitative Methods and Analysis (0.5 unit weight)
	  ○ HLTH 612/CS 792 Data Structures and Standards in Health Informatics (0.5 unit weight)
	  ○ <u>HLTH 645M Information Technology Fundamentals for Health Professionals (0.25 unit weight)</u>
	  ○ <u>HLTH 646M Applications and Evaluation of Health Information Technology (0.25 unit weight)</u>
	  ○ HLTH 640 Professional Experience Practicum (1.5 unit weight)
	  ○ <u>HLTH 648M Ethics and Privacy Considerations for Digital Technology and Artificial Intelligence in Health (0.25 unit weight)</u>
	  ○ HLTH 649<u>M</u> Leadership in Digital <u>Health and</u> Transformation (0.25 unit weight)
	• Students are required to complete <u>1.50 units of</u> courses from List B:
	  ○ CS 634 Security and Privacy in Health Systems (0.5 unit weight)
	  ○ CS 638 Principles of Data Management (0.5 unit weight)
	  ○ HLTH 615 Requirements Specification and Analysis in Health Systems (0.5 unit weight)
	  ○ HLTH 619 Fundamental Research Methods in Health Informatics (0.5 unit weight)
	  ○ <u>HLTH 657M</u> Application of Artificial Intelligence in Health (0.25 unit weight)
	  ○ <u>HLTH 658M</u> Machine Learning Techniques in Health (0.25 unit weight)
	  ○ <u>HLTH 717M</u> Advanced Artificial Intelligence in Health I <u>(0.25 unit weight)</u>
	  ○ <u>HLTH 718M</u> Natural Language Processing Algorithm and Application in Health <u>(0.25 unit weight)</u>
	• Elective courses (choose <u>1.0 units of courses</u> from List C):
	  ○ HLTH 603 Health Policy in Public Health (0.5 unit weight)
	  ○ HLTH 608 Health and Risk Communication in Public Health (0.5 unit weight)

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
○ HLTH 631 Public Health Surveillance (0.5 unit weight) ○ HLTH 632 Health Economics and Public Health (0.5 unit weight) ○ HLTH 633 Digital Health (0.5 unit weight) ○ HLTH 637 Public Health Informatics (0.5 unit weight) ○ HLTH 661 Geographic Information Systems and Public Health (0.5 unit weight) ○ HLTH 662 Global Health (0.5 unit weight) ○ STAT 631 Introduction to Statistical Methods in Health Informatics (0.5 unit weight) ○ Students can also choose from online and on-campus courses offered by both Computer Science and the School of Public Health Sciences with the permission of the program leader. • Students may choose to pursue one of the following Graduate Specializations: 1. Health Informatics 2. Advanced Analytics • 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 Graduate Specialization. • All MHIA Graduate Specializations consist of a set of at least 4 (0.50 weight) graduate 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 Specializations are described below. 1. Graduate Specialization in Health Informatics • To receive the Graduate Specialization in Health Informatics students must successfully complete the following compulsory courses ~~(0.50 unit weight)~~ and ~~2 (0.50 unit weight)~~ elective courses:	○ HLTH 609 Management and Administration of Public Health Services (0.5 unit weight) ○ HLTH 611 Health Care System (0.5 unit weight) ○ HLTH 614 Evaluation of Public Health Programs (0.5 unit weight) ○ HLTH 620 Pandemic Preparedness (0.5 unit weight) ○ HLTH 631 Public Health Surveillance (0.5 unit weight) ○ HLTH 632 Health Economics and Public Health (0.5 unit weight) ○ HLTH 633 Digital Health (0.5 unit weight) ○ HLTH 637 Public Health Informatics (0.5 unit weight) ○ HLTH 661 Geographic Information Systems and Public Health (0.5 unit weight) ○ HLTH 662 Global Health (0.5 unit weight) ○ STAT 631 Introduction to Statistical Methods in Health Informatics (0.5 unit weight) ○ Students can also choose from online and on-campus courses offered by both Computer Science and the School of Public Health Sciences with the permission of the program leader. • Students may choose to pursue one of the following Graduate Specializations: 1. Health Informatics 2. Advanced Analytics • 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 Graduate Specialization. • All MHIA Graduate Specializations consist of a set of at least 4 (0.50 weight) graduate 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

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
○ Compulsory courses ~~(0.50 unit weight)~~: ▪ CS 634 Security and Privacy for Health System (0.5 unit weight) ▪ CS 638 Principles of Database Management and Use (0.5 unit weight) ▪ HLTH 612/CS 792 ~~Health Data Standards~~ ▪ ~~HLTH 613A IT Infrastructure for Health Professionals (0.25 unit weight) and HLTH 613B IT Applications for Health Professionals (0.25 unit weight)~~ ▪ HLTH 615 Requirements Specification and Analysis in Health Systems (0.5 unit weight) ▪ HLTH 640 Professional Experience Practicum (1.5 unit weight) ▪ ~~HLTH 649A Privacy and Ethics (0.25 unit weight) and~~ HLTH 649~~B~~ Leadership in Digital Transformation (0.25 unit weight) ▪ HLTH 605B Quantitative Methods (0.5 unit weight) ○ Elective courses (choose ~~2 (0.50 unit weight)~~ from the following list): ▪ ~~HLTH 650A~~ Application of Artificial Intelligence in Health (0.25 unit weight) ~~and HLTH 650B~~ Machine Learning Techniques in Health (0.25 unit weight) ▪ HLTH 619 Fundamental Research Methods in Health Informatics (0.5 unit weight) ▪ HLTH 606B Principles of Epi (0.5 unit weight) ▪ HLTH 611 The Healthcare System (0.5 unit weight) ▪ HLTH 620 Pandemic Preparedness (0.5 unit weight) ▪ HLTH 631 Public Health Surveillance (0.5 unit weight) ▪ HLTH 633 Digital Health (0.5 unit weight) ▪ HLTH 637 Public Health Informatics (0.5 unit weight) ▪ HLTH 661 Geographic Information Systems and Public Health (0.5 unit weight)	Specialization. The requirements for the Graduate Specializations are described below. 1. Graduate Specialization in Health Informatics • To receive the Graduate Specialization in Health Informatics students must successfully complete the following compulsory courses and 1.0 units of elective courses: ○ Compulsory courses: ▪ CS 634 Security and Privacy for Health System (0.5 unit weight) ▪ CS 638 Principles of Database Management and Use (0.5 unit weight) ▪ HLTH 612/CS 792 Data Structures and Standards in Health Informatics (0.5 unit weight) ▪ HLTH 645M Information Technology Fundamentals for Health Professionals (0.25 unit weight) ▪ HLTH 646M Applications and Evaluation of Health Information Technology (0.25 unit weight) ▪ HLTH 615 Requirements Specification and Analysis in Health Systems (0.5 unit weight) ▪ HLTH 640 Professional Experience Practicum (1.5 unit weight) ▪ HLTH 648M Ethics and Privacy Considerations for Digital Technology and Artificial Intelligence in Health (0.25 unit weight) ▪ HLTH 649M Leadership in Digital Health and Transformation (0.25 unit weight) ▪ HLTH 605B Quantitative Methods (0.5 unit weight) ○ Elective courses (choose 1.0 units of courses from the following list): ▪ HLTH 657M Application of Artificial Intelligence in Health (0.25 unit weight) ▪ HLTH 658M Machine Learning Techniques in Health (0.25 unit weight)

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
2. Graduate Specialization in Advanced Analytics • To receive the Graduate Specialization in Advanced Analytics, students must successfully complete the following compulsory courses ~~(0.50 unit weight)~~ and ~~2 (0.50 unit weight)~~ elective courses: ○ Compulsory courses ~~(0.50 unit weight)~~ ▪ HLTH 605B Quantitative Methods (0.5 unit weight) ▪ HLTH 612/CS 792 ~~Health Data Standards (0.5 unit weight)~~ ~~▪ HLTH 613A IT Infrastructure for Health Professionals (0.25 unit weight) and HLTH 613B IT Applications for Health Professionals (0.25 unit weight)~~ ▪ HLTH 619 Fundamental Research Methods in Health Informatics (0.5 unit weight) ▪ HLTH 640 Professional Experience Practicum (1.5 unit weight) ~~▪ HLTH 649A Privacy and Ethics (0.25 unit weight) and~~ HLTH 649~~B~~ Leadership in Digital Transformation (0.25 unit weight) ~~▪ HLTH 650A~~ Application of Artificial Intelligence in Health (0.25 unit weight)~~ and HLTH 650B~~ Machine Learning Techniques in Health (0.25 unit weight) ~~▪ HLTH 718A~~ Advanced ~~AI~~ in Health I~~: Deep Learning~~ (0.25 units weight)~~ and HLTH 718B Advanced AI in Health II: NLP~~ (0.25 unit weight) ○ Elective courses (choose ~~2 (0.50 unit weight)~~ from the following list): ▪ CS 634 Security and Privacy for Health System) (0.5 unit weight) ▪ CS 638 Principles of Database Management and Use (0.5 unit weight) ▪ HLTH 606B Principles of ~~Epi~~ (0.5 unit weight) ▪ HLTH 611 The Healthcare System (0.5 unit weight) ▪ HLTH 637 Public Health Informatics (0.5 unit weight) ▪ HLTH 620 Pandemic Preparedness (0.5 unit weight)	▪ HLTH 619 Fundamental Research Methods in Health Informatics (0.5 unit weight) ▪ HLTH 606B Principles of Epi (0.5 unit weight) ▪ HLTH 611 The Healthcare System (0.5 unit weight) ▪ HLTH 620 Pandemic Preparedness (0.5 unit weight) ▪ HLTH 631 Public Health Surveillance (0.5 unit weight) ▪ HLTH 633 Digital Health (0.5 unit weight) ▪ HLTH 637 Public Health Informatics (0.5 unit weight) ▪ HLTH 661 Geographic Information Systems and Public Health (0.5 unit weight) 2. Graduate Specialization in Advanced Analytics • To receive the Graduate Specialization in Advanced Analytics, students must successfully complete the following compulsory courses and 1.0 units of elective courses: ○ Compulsory courses ▪ HLTH 605B Quantitative Methods (0.5 unit weight) ▪ HLTH 612/CS 792 Data Structures and Standards in Health Informatics (0.5 unit weight) ▪ HLTH 645M Information Technology Fundamentals for Health Professionals (0.25 unit weight) ▪ HLTH 646M Applications and Evaluation of Health Information Technology (0.25 unit weight) ▪ HLTH 619 Fundamental Research Methods in Health Informatics (0.5 unit weight) ▪ HLTH 640 Professional Experience Practicum (1.5 unit weight) ▪ HLTH 648M Ethics and Privacy Considerations for Digital Technology and Artificial Intelligence in Health (0.25 unit weight) ▪ HLTH 649M Leadership in Digital Health and Transformation (0.25 unit weight)

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
▪ HLTH 631 Public Health Surveillance (0.5 unit weight) ▪ HLTH 633 Digital Health (0.5 unit weight) ▪ HLTH 661 Geographic Information Systems and Public Health (0.5 unit weight) 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.	▪ HLTH 657M Application of Artificial Intelligence in Health (0.25 unit weight) ▪ HLTH 658M Machine Learning Techniques in Health (0.25 unit weight) ▪ HLTH 717M Advanced Artificial Intelligence in Health I (0.25 unit weight) ▪ HLTH 718M Natural Language Processing Algorithm and Application in Health (0.25 unit weight) ○ Elective courses (choose 1.0 units of courses from the following list): ▪ CS 634 Security and Privacy for Health System) (0.5 unit weight) ▪ CS 638 Principles of Database Management and Use (0.5 unit weight) ▪ HLTH 606B Principles of Epidemiology for Public Health (0.5 unit weight) ▪ HLTH 611 The Healthcare System (0.5 unit weight) ▪ HLTH 637 Public Health Informatics (0.5 unit weight) ▪ HLTH 620 Pandemic Preparedness (0.5 unit weight) ▪ HLTH 631 Public Health Surveillance (0.5 unit weight) ▪ HLTH 633 Digital Health (0.5 unit weight) ▪ HLTH 661 Geographic Information Systems and Public Health (0.5 unit weight) • 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.

How will students currently registered in the program be impacted by these changes?

We are changing the course numbers and suffixes to make it easier for students to understand that these courses are 6 week modular courses.

Department/School approval date (mm/dd/yy): 03/24/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 03/27/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):
Senate approval date (mm/dd/yy) (if applicable):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

Updating the course description.

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

Course subject code: KIN

Course number: 646

Course ID: 013455

Course title (max. 100 characters including spaces): Physiological and Biochemical Aspects of Nutrition and Health

Course short title (max. 30 characters including spaces): Advanced Nutrition

Grading basis: Numerical

Course credit weight: 0.50

Course consent required: Not required

Course description:

Current description: Selected nutrients will be examined in detail in regards to dietary intake, metabolism, metabolism and mechanistic effects on human health. Comprehensive coverage of nutrients is not intended, but

the specific nutrients examined will include at least one example each from lipids, proteins, carbohydrates, water soluble vitamins, lipid soluble vitamins and minerals.

Revised description: Selected examples of nutrient metabolism will be examined in detail in regard to dietary intake, metabolism, and mechanistic effects on human health. Comprehensive coverage of all nutrients is not intended, but rather the examples will be examined in detail with a focus on research techniques and approaches, and various factors that interact with and influence nutrition.

Meet type(s): Lecture Choose an item. Choose an item. Choose an item.

Primary meet type: Lecture

Delivery mode: On-campus

Anti-requisites: KIN 446

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:
Sections combined/held with: KIN 446

Rationale for request:

KIN 664 is held with KIN 446. The KIN 664 course description is being updated to match the KIN 446 description.

Form completed by: Alicia Nadon
Department/School approval date (mm/dd/yy): 02/01/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 01/22/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

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

Course subject code: KIN

Course number: 670A

Course ID: TBD

Course title (max. 100 characters including spaces): Seminar in Kinesiology and Health Sciences 1

Course short title (max. 30 characters including spaces): Seminar in KHS 1

Grading basis: Credit/No Credit

Course credit weight: 0.00

Course consent required: Department

Course description:

This is a weekly seminar including both student and faculty presentations of current research and student research proposals. The content of the seminars may vary from term to term depending on the availability of invited speakers, topics of interest to students and faculty, and the research of members of the group. Exposure to these topics from multiple perspectives will create a foundation and set expectations for scientific dissemination and respectful discussion. Completion of this course will not only deepen students' understanding of core

concepts in Kinesiology and Health Sciences, but also provide invaluable insights into the practical applications of interdisciplinary knowledge in real-world contexts.

Meet type(s): Seminar Choose an item. Choose an item. Choose an item.

Primary meet type: Seminar

Delivery mode: On-campus

Requisites: none

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:
Sections combined/held with:

Rationale for request:

The decision to include a standalone course for MSc year 1 students is driven by a strategic initiative to meet the evolving needs of graduate students in their first year and to model for them best practices in scientific dissemination and respectful discussion. By setting this foundation and expectation for scientific delivery, students will be better prepared to disseminate their own research and engage in immersive discussions with fellow students and faculty.

Form completed by: Alicia Nadon
Department/School approval date (mm/dd/yy): 02/01/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 01/22/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

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

Faculty: Health

Effective date: Term: Fall Year: 2025

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 ID, 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*):

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

Course subject code: KIN

Course number: 670B

Course ID: TBD

Course title (max. 100 characters including spaces): Seminar in Kinesiology and Health Sciences 2

Course short title (max. 30 characters including spaces): Seminar in KHS 2

Grading basis: Credit/No Credit

Course credit weight: 0.00

Course consent required: Department

Course description:

This is a weekly seminar including both student and faculty presentations of current research and student research proposals. The content of the seminars may vary from term to term depending on the availability of invited speakers, topics of interest to students and faculty, and the research of members of the group. Exposure to these topics from multiple perspectives will create a foundation and set expectations for scientific dissemination and respectful discussion. Completion of this course will not only deepen students' understanding of core

concepts in Kinesiology and Health Sciences, but also provide invaluable insights into the practical applications of interdisciplinary knowledge in real-world contexts.

Meet type(s): Seminar Choose an item. Choose an item. Choose an item.

Primary meet type: Seminar

Delivery mode: On-campus

Requisites: none

Special topics course: Yes ☐ No ☒

Cross-listed course: Yes ☐ No ☒

Course subject code(s) and number(s) to be cross-listed with and approval status:
Sections combined/held with:

Rationale for request:

The decision to include a standalone course for MSc year 1 students is driven by a strategic initiative to meet the evolving needs of graduate students in their first year and to model for them best practices in scientific dissemination and respectful discussion. By setting this foundation and expectation for scientific delivery, students will be better prepared to disseminate their own research and engage in immersive discussions with fellow students and faculty.

Form completed by: Alicia Nadon
Department/School approval date (mm/dd/yy): 02/01/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 01/22/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):

Graduate Studies
Program Revision Template

Prior to form submission, review the content revision instructions and information regarding major/minor modifications. For questions about the form submission, contact Trevor Clews, Graduate Studies and Postdoctoral Affairs (GSPA).

Faculty: Health

Program: Master of Science (MSc) in Kinesiology and Health Sciences - Aeronautics

Program contact name(s): Michael Barnett-Cowan, Alicia Nadon

Form completed by: Alicia Nadon

Description of proposed changes:
Note: changes to courses and milestones also require the completion/submission of the SGRC Graduate Studies Course/Milestone Form.

Students enrolled in the MSc in KHS – Aeronautics program will be required to enroll in a two part non-credit seminar course (KIN 670 A/B) in the fall and winter terms of the first year of their program in order to fulfill degree requirements.

Is this a major modification to the program? No

Rationale for change(s):

The decision to include an additional seminar standalone course for MSc year 1 students is driven by a strategic initiative to meet the evolving needs of graduate students in their first year and to model for them best practices in scientific dissemination and respectful discussion. By setting this foundation and expectation for scientific delivery, students will be better prepared to disseminate their own research and engage in immersive discussions with fellow students and faculty.

Proposed effective date: Term: Fall Year: 2025

Current Graduate Studies Academic Calendar (GSAC) page (include the link to the web page where the changes are to be made):

https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/programs/B1XTekC0s2

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
Thesis option: Course requirements • Students must successfully complete a minimum of 2.50 units of graduate courses (e.g., 5 courses each at 0.50 unit weight), including AVIA 601 Interdisciplinary Aeronautics, AVIA 602 Interdisciplinary Aeronautics Project, and KIN 630 Research Design and Statistical Analysis (0.50 unit weight) or an equivalent course (related to quantitative or qualitative analysis, such as research methods, modelling, mathematics, or statistics), with the approval of the Department	**Thesis option: Course requirements** • Students must successfully complete a minimum of 2.50 units of graduate courses (e.g., 5 courses each at 0.50 unit weight), including AVIA 601 Interdisciplinary Aeronautics, AVIA 602 Interdisciplinary Aeronautics Project, and KIN 630 Research Design and Statistical Analysis (0.50 unit weight) or an equivalent course (related to quantitative or qualitative analysis, such as research methods, modelling, mathematics, or statistics), with the approval of the Department

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:

Graduate Officer. All graduate courses must be assigned a numerical grade. Students must obtain an average of at least 75% in the set of courses which they present in fulfilment of course requirements. A grade below 70% on any individual course or an average below 75% on the set of courses for the degree will result in a review of the student's status by the Department Graduate Committee. If a student receives a grade in any individual course below 60%, the Department Graduate Committee review may result in the requirement to withdraw from the program. If the student is permitted to proceed, any course with a grade below 60% will not be eligible towards the degree requirements, thus requiring the course to be repeated or additional course work to be completed.
• 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).
	Graduate Officer. All graduate courses must be assigned a numerical grade. Students must obtain an average of at least 75% in the set of courses which they present in fulfilment of course requirements. A grade below 70% on any individual course or an average below 75% on the set of courses for the degree will result in a review of the student's status by the Department Graduate Committee. If a student receives a grade in any individual course below 60%, the Department Graduate Committee review may result in the requirement to withdraw from the program. If the student is permitted to proceed, any course with a grade below 60% will not be eligible towards the degree requirements, thus requiring the course to be repeated or additional course work to be completed.
	• 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).
	• <u>Students must also complete (and receive CR for) the following CR/NCR graduate seminar courses</u>
	  ○ <u>KIN 670A Seminar in Kinesiology and Health Sciences 1</u>
	  ○ <u>KIN 670B Seminar in Kinesiology and Health Sciences 2</u>

How will students currently registered in the program be impacted by these changes?

Students currently enrolled in the MSc in KHS – Aeronautics (2023-2025 cohort) will not be expected to enroll in the new course requirements. Students in their first year in Fall 2025 will fall under the new requirements and be expected to have both the new course requirement complete in addition to the seminar milestone.

Department/School approval date (mm/dd/yy): Feb 2025 (TBC)
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 01/22/25
Faculty approval date (mm/dd/yy):
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):
Senate approval date (mm/dd/yy) (if applicable):

Graduate Studies
Program Revision Template

Prior to form submission, review the content revision instructions and information regarding major/minor modifications. For questions about the form submission, contact Trevor Clews, Graduate Studies and Postdoctoral Affairs (GSPA).

Faculty: Health

Program: Master of Science (MSc) in Kinesiology and Health Sciences

Program contact name(s): Michael Barnett-Cowan, Alicia Nadon

Form completed by: Alicia Nadon

Description of proposed changes:
Note: changes to courses and milestones also require the completion/submission of the SGRC Graduate Studies Course/Milestone Form.

Students enrolled in the MSc in KHS program will be required to enroll in a two part non-credit seminar course (KIN 670 A/B) in the fall and winter terms of the first year of their program in order to fulfill degree requirements.

Is this a major modification to the program? No

Rationale for change(s):

The decision to include an additional seminar standalone course for MSc year 1 students is driven by a strategic initiative to meet the evolving needs of graduate students in their first year and to model for them best practices in scientific dissemination and respectful discussion. By setting this foundation and expectation for scientific delivery, students will be better prepared to disseminate their own research and engage in immersive discussions with fellow students and faculty.

Proposed effective date: Term: Fall Year: 2025

Current Graduate Studies Academic Calendar (GSAC) page (include the link to the web page where the changes are to be made):

https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/programs/S1WplkRCs3

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
Thesis option: Course requirements • Students must successfully complete a minimum of 2.00 units of graduate courses (e.g., 4 courses each at 0.50 unit weight), including KIN 630 Research Design and Statistical Analysis (0.50 unit weight) or an equivalent course (related to quantitative or qualitative analysis, such as research methods, modelling, mathematics, or statistics), with the approval of the Department Graduate Officer. All graduate courses must be assigned a numerical grade. Students must	**Thesis option: Course requirements** • Students must successfully complete a minimum of 2.00 units of graduate courses (e.g., 4 courses each at 0.50 unit weight), including KIN 630 Research Design and Statistical Analysis (0.50 unit weight) or an equivalent course (related to quantitative or qualitative analysis, such as research methods, modelling, mathematics, or statistics), with the approval of the Department Graduate Officer. All graduate courses must be assigned a numerical grade. Students must

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:

obtain an average of at least 75% in the set of courses which they present in fulfilment of course requirements. A grade below 70% on any individual course or an average below 75% on the set of courses for the degree will result in a review of the student's status by the Department Graduate Committee. If a student receives a grade in any individual course below 60%, the Department Graduate Committee review may result in the requirement to withdraw from the program. If the student is permitted to proceed, any course with a grade below 60% will not be eligible towards the degree requirements, thus requiring the course to be repeated or additional course work to be completed.	obtain an average of at least 75% in the set of courses which they present in fulfilment of course requirements. A grade below 70% on any individual course or an average below 75% on the set of courses for the degree will result in a review of the student's status by the Department Graduate Committee. If a student receives a grade in any individual course below 60%, the Department Graduate Committee review may result in the requirement to withdraw from the program. If the student is permitted to proceed, any course with a grade below 60% will not be eligible towards the degree requirements, thus requiring the course to be repeated or additional course work to be completed.
	• Students must also complete (and receive CR for) the following CR/NCR graduate seminar courses
	  ○ KIN 670A Seminar in Kinesiology and Health Sciences 1
	  ○ KIN 670B Seminar in Kinesiology and Health Sciences 2

How will students currently registered in the program be impacted by these changes?

Students currently enrolled in the MSc in KHS (2023-2025 cohort) will not be expected to enroll in the new course requirements. Students in their first year in Fall 2025 will fall under the new requirements and be expected to have both the new course requirement complete in addition to the seminar milestone.

Department/School approval date (mm/dd/yy): 02/01/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 01/22/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):
Senate approval date (mm/dd/yy) (if applicable):

Graduate Studies
Program Revision Template

Prior to form submission, review the content revision instructions and information regarding major/minor modifications. For questions about the form submission, contact Trevor Clews, Graduate Studies and Postdoctoral Affairs (GSPA).

Faculty: Health

Program: Doctor of Philosophy (PhD) in Kinesiology and Health Sciences - Aging, Health and Well-Being

Program contact name(s): Michael Barnett-Cowan, Alicia Nadon

Form completed by: Alicia Nadon

Description of proposed changes:
Note: changes to courses and milestones also require the completion/submission of the SGRC Graduate Studies Course/Milestone Form.

Students in our PhD in KHS - AHWB program will be asked to also attend Department wide and stream specific seminar offerings over the course of their 4 year degree in order to obtain a PhD seminar milestone.

Is this a major modification to the program? No

Rationale for change(s):

Students in all of our other PhD programs (including Aeronautics, which also has two additional course/seminar requirements) are asked to obtain their seminar milestone. By adding the PhD Seminar to the list of required milestones for our AHWB students, we are ensuring all students across our programming have exposure to topics from multiple perspectives that will create a foundation and set expectations for scientific dissemination and respectful discussion.

Proposed effective date: Term: Fall Year: 2025

Current Graduate Studies Academic Calendar (GSAC) page (include the link to the web page where the changes are to be made):

https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/programs/SJx6xJA0j2

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
Milestone requirements **PhD Professional Development Seminar** Students are required to complete a series of professional development seminars and workshops throughout their program of study. **PhD Comprehensive Examination** Students are required to meet the University-level PhD Comprehensive Examination minimum requirements, with certain noted differences that are specific to the Faculty of Health Comprehensive Examination minimum requirements:	**Milestone requirements** **PhD Seminar** Students are required to complete a series of academic and discipline specific seminars throughout their program of study. **PhD Professional Development Seminar** Students are required to complete a series of professional development seminars and workshops throughout their program of study. **PhD Comprehensive Examination**

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
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. **PhD Thesis** Thesis Proposal: Following successful completion of the comprehensive exam, each student will be required to compete a PhD thesis proposal. The proposal involves a written document related to the student's thesis area. The thesis project and proposal are developed in consultation with the supervisor. Each student must orally defend the thesis proposal to the Advisory Committee consisting of the supervisor (or co-supervisors), and two other members (one of which must be from a home Department within the collaborative program in Aging, Health, and Well-Being). A chair to oversee the oral thesis proposal will be appointed by the home Department. Thesis Defence: Each student is required to submit a thesis embodying the results of original research carried out under the direction of an Advisory Committee headed by the supervisor. The candidate defends the thesis before an Examining Committee approved by the Department Graduate Committee. The Examining Board should consist of the Advisory Committee (see thesis proposal above), an additional member that is external to the Department (referred to as the internal-external), and finally an additional member that is external to the University (referred to as the external examiner). The thesis will be in an area relevant to Aging, Health, and Well-Being. **Other requirements** Student evaluation: A review of each student's progress by both the supervisor and Department Graduate Committee takes place each year. Students are evaluated on several criteria, including performance in courses, progress towards course and	Students are required to meet the University-level PhD 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. **PhD Thesis** Thesis Proposal: Following successful completion of the comprehensive exam, each student will be required to compete a PhD thesis proposal. The proposal involves a written document related to the student's thesis area. The thesis project and proposal are developed in consultation with the supervisor. Each student must orally defend the thesis proposal to the Advisory Committee consisting of the supervisor (or co-supervisors), and two other members (one of which must be from a home Department within the collaborative program in Aging, Health, and Well-Being). A chair to oversee the oral thesis proposal will be appointed by the home Department. Thesis Defence: Each student is required to submit a thesis embodying the results of original research carried out under the direction of an Advisory Committee headed by the supervisor. The candidate defends the thesis before an Examining Committee approved by the Department Graduate Committee. The Examining Board should consist of the Advisory Committee (see thesis proposal above), an additional member that is external to the Department (referred to as the internal-external), and finally an additional member that is external to the University (referred to as the external examiner). The thesis will be in an area relevant to Aging, Health, and Well-Being. **Other requirements**

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
milestone completion, thesis progress, scholarly activity, and research and teaching assistantship activity.	Student evaluation: A review of each student's progress by both the supervisor and Department Graduate Committee takes place each year. Students are evaluated on several criteria, including performance in courses, progress towards course and milestone completion, thesis progress, scholarly activity, and research and teaching assistantship activity.

How will students currently registered in the program be impacted by these changes?

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Students currently enrolled in the PhD in KHD – AHWB will not be expected to complete the new milestone requirements to obtain their degree. They have already obtained their required seminar milestone. The incoming 2025 cohort will begin to attend stream specific and department wide seminar offerings to earn their PhD Seminar Milestone.

Department/School approval date (mm/dd/yy): 02/01/25
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 01/22/25
Faculty approval date (mm/dd/yy): 06/02/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):
Senate approval date (mm/dd/yy) (if applicable):

Mathematics Graduate Studies report

Motion 1: Calendar changes to Statistics & Actuarial Science

1.1 Program Revision changing the time limit for completing Comprehensive Examination 1 requirements and clarifying text regarding course exemptions for:

- Doctor of Philosophy (PhD) in Actuarial Science and Quantitative Finance
- Doctor of Philosophy (PhD) in Statistics
- Doctor of Philosophy (PhD) in Statistics – Biostatistics

1.2 Program Revision updating the Master's Research Paper option to add a progress requirement for the Master of Quantitative Finance (MQF) program

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These have been approved by the Mathematics Faculty Council on Tuesday, April 22, 2025

Graduate Studies
Program Revision Template

Prior to form submission, review the content revision instructions and information regarding major/minor modifications. For questions about the form submission, contact Trevor Clews, Graduate Studies and Postdoctoral Affairs (GSPA).

Faculty: Mathematics

Programs: 1) Doctor of Philosophy (PhD) in Actuarial Science and Quantitative Finance

2) Doctor of Philosophy (PhD) in Statistics

3) Doctor of Philosophy (PhD) in Statistics - Biostatistics

Program contact name(s): Greg Rice

Form completed by: Heather McLaughlin

Description of proposed changes:
Note: changes to courses and milestones also require the completion/submission of the SGRC Graduate Studies Course/Milestone Form.

Changing the time limit for completing Comprehensive Examination 1 requirements and clarifying text regarding course exemptions.

Is this a major modification to the program? No

Rationale for change(s):

Currently, the Comprehensive Examination I milestone must be completed by the end of term three. The Department would like to extend this timeframe so that students will have until the end of term four before completing the requirement. Many of our courses are only offered once per year;, extending would give students the flexibility to choose breadth courses that better align with their research as it would reduce scheduling conflicts.

The calender text currently indicates that the Graduate Chair can approve exemptions to the breadth requirement. The proposed text more accurately indicates that Graduate Chair has the authority to approve exemptions to other course requirements as well.

Proposed effective date: Term: Fall Year: 2025

Current Graduate Studies Academic Calendar (GSAC) page (include the link to the web page where the changes are to be made):

https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/programs/H1eby0Rj3

https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/programs/HkgWyARoh

https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/programs/rkxbk0Aih

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
Applies to all three programs: Exemptions can be made to the required ~~breadth~~ courses at the discretion of the Associate Chair for Graduate Studies.	**Applies to all three programs:** Exemptions can be made to the required courses at the discretion of the Associate Chair for Graduate Studies.
PhD in Actuarial Science and Quantitative Finance	**PhD in Actuarial Science and Quantitative Finance**
PhD Comprehensive Examination I • By the end of their ~~third~~ term, students are required to (a) take at least 5 graduate level courses including their 900-level course requirements, (b) complete their required breadth requirements (see Table 1 above), and (c) ACTSC 900. • Students must achieve a grade of at least 75% in each breadth requirement course. Topics courses will be assigned to the appropriate category by the Graduate Officer. • The Graduate Officer may require students to take additional courses beyond the minimum number of courses noted above in the offer letter to the student (i.e., six courses for PhD students with a Masters, or nine courses for PhD students without a Masters). • Students must take ACTSC 900 that requires students to prepare a portfolio and undertake an oral exam by the end of their third term. Each student will be examined by the instructor and a ACTSC 900 committee, which includes the supervisor(s) and at least two other departmental Faculty members. This committee will evaluate the student according to a common grading scheme and all grades in the class will be moderated by the instructor to ensure consistency across committees. If the committee and instructor determine that the student has not reached the required standard for a passing grade, then they will prepare detailed comments on the weaknesses that need to be addressed in the portfolio and the oral exam. The student will then address these issues, resubmit the portfolio and retake the oral exam by the end of the following term. If the student fails the course for a second time, they will be required to withdraw from the program.	PhD Comprehensive Examination I • By the end of their <u>fourth</u> term, students are required to (a) take at least 5 graduate level courses including their 900-level course requirements, (b) complete their required breadth requirements (see Table 1 above), and (c) ACTSC 900. • Students must achieve a grade of at least 75% in each breadth requirement course. Topics courses will be assigned to the appropriate category by the Graduate Officer. • The Graduate Officer may require students to take additional courses beyond the minimum number of courses noted above in the offer letter to the student (i.e., six courses for PhD students with a Masters, or nine courses for PhD students without a Masters). • Students must take ACTSC 900 that requires students to prepare a portfolio and undertake an oral exam by the end of their third term. Each student will be examined by the instructor and a ACTSC 900 committee, which includes the supervisor(s) and at least two other departmental Faculty members. This committee will evaluate the student according to a common grading scheme and all grades in the class will be moderated by the instructor to ensure consistency across committees. If the committee and instructor determine that the student has not reached the required standard for a passing grade, then they will prepare detailed comments on the weaknesses that need to be addressed in the portfolio and the oral exam. The student will then address these issues, resubmit the portfolio and retake the oral exam by the end of the following term. If the student fails the course for a second time, they will be required to withdraw from the program.
PhD in Statistics **PhD in Statistics - Biostatistics**	**PhD in Statistics** **PhD in Statistics - Biostatistics**
PhD Comprehensive Examination I • By the end of their ~~third~~ term, students are required to (a) take at least 5 graduate level courses including their 900-level course	PhD Comprehensive Examination I • By the end of their <u>fourth</u> term, students are required to (a) take at least 5 graduate level

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
requirements, (b) complete their required breadth requirements (see Table 1 above), and (c) STAT 900. • Students must achieve a grade of at least 75% in each breadth requirement course. Topics courses will be assigned to the appropriate category by the Graduate Officer. • The Graduate Officer may require students to take additional courses beyond the minimum number of courses noted above in the offer letter to the student (i.e., six courses for PhD students with a Masters, or nine courses for PhD students without a Masters). • Students must take STAT 900 that requires students to prepare a portfolio and undertake an oral exam by the end of their third term. Each student will be examined by the instructor and a STAT 900 committee, which includes the supervisor(s) and at least two other departmental Faculty members. This committee will evaluate the student according to a common grading scheme and all grades in the class will be moderated by the instructor to ensure consistency across committees. If the committee and instructor determine that the student has not reached the required standard for a passing grade, then they will prepare detailed comments on the weaknesses that need to be addressed in the portfolio and the oral exam. The student will then address these issues, resubmit the portfolio and retake the oral exam by the end of the following term. If the student fails the course for a second time, then they will be required to withdraw from the program.	courses including their 900-level course requirements, (b) complete their required breadth requirements (see Table 1 above), and (c) STAT 900. • Students must achieve a grade of at least 75% in each breadth requirement course. Topics courses will be assigned to the appropriate category by the Graduate Officer. • The Graduate Officer may require students to take additional courses beyond the minimum number of courses noted above in the offer letter to the student (i.e., six courses for PhD students with a Masters, or nine courses for PhD students without a Masters). • Students must take STAT 900 that requires students to prepare a portfolio and undertake an oral exam by the end of their third term. Each student will be examined by the instructor and a STAT 900 committee, which includes the supervisor(s) and at least two other departmental Faculty members. This committee will evaluate the student according to a common grading scheme and all grades in the class will be moderated by the instructor to ensure consistency across committees. If the committee and instructor determine that the student has not reached the required standard for a passing grade, then they will prepare detailed comments on the weaknesses that need to be addressed in the portfolio and the oral exam. The student will then address these issues, resubmit the portfolio and retake the oral exam by the end of the following term. If the student fails the course for a second time, then they will be required to withdraw from the program.

How will students currently registered in the program be impacted by these changes?

No impact to current students.

Department/School approval date (02/07/25):
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 02/11/25
Faculty approval date (mm/dd/yy): 04/22/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):
Senate approval date (mm/dd/yy) (if applicable):

Graduate Studies
Program Revision Template

Prior to form submission, review the content revision instructions and information regarding major/minor modifications. For questions about the form submission, contact Trevor Clews, Graduate Studies and Postdoctoral Affairs (GSPA).

Faculty: Mathematics

Program: Master of Quantitative Finance (MQF)

Program contact name(s): Alex Schied

Form completed by: Heather McLaughlin

Description of proposed changes:
Note: changes to courses and milestones also require the completion/submission of the SGRC Graduate Studies Course/Milestone Form.

Updating the Master's Research Paper option to add a progress requirement.

Is this a major modification to the program? No

Rationale for change(s):

The Department would like to implement a progress requirement to clarify expectations regarding timing of required courses. For example, STAT 850 is a challenging course that is only offered in Fall. Some students choose not to attempt the course until term four. This has resulted in students getting to their final term and being unable to pass the course, causing issues for their timely degree completion.

Proposed effective date: Term: Fall Year: 2025

Current Graduate Studies Academic Calendar (GSAC) page (include the link to the web page where the changes are to be made):

https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/programs/rkeq-1CAih

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:

Master's Research Paper option: Course requirements
• Required courses:
  ○ ACC 770 Finance 1/ACTSC 970 Finance 1
  ○ ACC 771 Finance 2/ACTSC 971 Finance 2
  ○ ACC 772 Finance 3/ACTSC 972 Finance 3
  ○ ACTSC 969 Stochastic Calculus for Quantitative Finance
	Master's Research Paper option: Course requirements
	• Required courses:
	  ○ ACC 770 Finance 1/ACTSC 970 Finance 1
	  ○ ACC 771 Finance 2/ACTSC 971 Finance 2
	  ○ ACC 772 Finance 3/ACTSC 972 Finance 3
	  ○ ACTSC 969 Stochastic Calculus for Quantitative Finance

Current Graduate Studies Academic Calendar content:	**Proposed Graduate Studies Academic Calendar content**:
○ STAT 850 Estimation and Hypothesis Testing ○ STAT 906 Computer Intensive Methods for Stochastic Models in Finance ○ STAT 974/ACTSC 974 Financial Econometrics • Elective courses: students are required to take 2 additional graduate level courses (0.50 unit weight) approved by the student's academic advisor. • Students must obtain an overall average of at least 75% in the courses presented in fulfilment of the degree requirements.	○ STAT 850 Estimation and Hypothesis Testing ○ STAT 906 Computer Intensive Methods for Stochastic Models in Finance ○ STAT 974/ACTSC 974 Financial Econometrics • Elective courses: students are required to take 2 additional graduate level courses (0.50 unit weight) approved by the student's academic advisor. • <u>By the end of term two, students must have successfully completed five courses. These courses must include ACC 770/ACTSC 970, ACC 771/ACTSC 971, and STAT 850. Students that do not meet this progress requirement may be required to withdraw from the program.</u> • Students must obtain an overall average of at least 75% in the courses presented in fulfilment of the degree requirements.

How will students currently registered in the program be impacted by these changes?

No impact to current students.

Department/School approval date (02/07/25):
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 02/11/25
Faculty approval date (mm/dd/yy): 04/22/25
Senate Graduate & Research Council (SGRC) approval date (mm/dd/yy):
Senate approval date (mm/dd/yy) (if applicable):

UNIVERSITY OF WATERLOO

GRADUATE STUDIES AND POSTDOCTORAL AFFAIRS

Memo

DATE: June 13, 2025

TO: Mike Grivicic, Associate University Secretary

FROM: Clarence Woudsma, Interim Co-Associate Vice-President, Graduate Studies and Postdoctoral Affairs (GSPA)
Justin Wan, Interim Co-Associate Vice-President, GSPA
Marianne Simm, Director, GSPA
Tanya Missere Mihas, VP, Student Affairs and Community Education, Renison University College

RE: Graduate Studies Academic Calendar (GSAC) updates

Regular agenda items for approval:

1) English language proficiency
2) English for multilingual speakers (EMLS)

1) English language proficiency

Description and rationale for proposed changes:

Updating the English language proficiency section, under Admissions, to clearly identify the two Renison-taught pathways for students to be considered for admission into graduate programs. The English for Academic Success (EFAS) program is completed prior to a student's enrolment in their graduate program and is part of a student's conditional offer of admission. The Effective English Communication for Graduate Students (EECG) course(s) requirement, which will replace EMLS courses, would be stipulated as a requirement of admission and taken concurrent with program registration.

EECG courses, offered through Renison's English Language Institute, are intended for students who meet the overall graduate studies minimum alternative level for English language requirements and are taken concurrent with their graduate program enrolment. EECG courses replace the EMLS courses, but follow closely in course content, with the same expected student competencies obtained upon completion. EMLS courses will be removed from the Calendar effective Spring 2026.

Under both the EFAS and EECG admission conditions, minimum completion requirements will be included with the students offer of admission.

Renison and GSPA worked in collaboration on the proposed changes which have been endorsed by the Graduate Operations Committee.

Proposed effective date: Term: Spring Year: 2026
Current **Graduate Studies Academic Calendar (GSAC)** page:
https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/policy/SJDLMPJAa

Current Calendar copy	Proposed Calendar copy
3.10 English language proficiency The official language of instruction at the University of Waterloo is English. It is the responsibility of the University to ensure that its graduate students have sufficient English language skills to be successful with the demands of the academic environment. Applicants are exempt from submitting an English language proficiency (ELP) examination score if any one of the following conditions is true: • Applicants have completed three or more years of post-secondary education or completed a graduate degree at a Canadian institution or university	**3.10 English language proficiency** The official language of instruction at the University of Waterloo is English. It is the responsibility of the University to ensure that its graduate students have sufficient English language skills to be successful with the demands of the academic environment. Applicants are exempt from submitting an English language proficiency (ELP) examination score if any one of the following conditions is true: • Applicants have completed three or more years of post-secondary education or completed a graduate degree at a Canadian institution or university

• Applicants have completed three or more years of post-secondary education or completed a graduate degree at a university at which English was the primary language of instruction, as indicated on our ELP exemption list* • Applicants have been employed for at least three years in a position in which English was the language of business in a country listed on our ELP exemption list* *Information on approved ELP exempted countries and institutions is available on the Graduate Studies and Postdoctoral Affairs website. Tests must have been taken within the last 24 months at the time the application is submitted. Tests that do not appear on this chart are not accepted for admission consideration. The University of Waterloo reserves the right to request an English language test result from any applicant. For students who do not meet the minimum English language requirements, ~~a conditional~~ offer of admission may be extended with requirements to complete specific language training ~~as specified in their offer of admission~~, either prior to, or concurrent with their program registration. In some programs, and under certain conditions, students may satisfy ~~the~~ English language requirements by successfully completing the English for Academic Success (EFAS) at the level required for the intended program of study, with an enrichment component in ~~G~~raduate ~~S~~tudies ~~P~~reparation.	• Applicants have completed three or more years of post-secondary education or completed a graduate degree at a university at which English was the primary language of instruction, as indicated on our ELP exemption list* • Applicants have been employed for at least three years in a position in which English was the language of business in a country listed on our ELP exemption list* *Information on approved ELP exempted countries and institutions is available on the Graduate Studies and Postdoctoral Affairs website. Tests must have been taken within the last 24 months at the time the application is submitted. Tests that do not appear on this chart are not accepted for admission consideration. The University of Waterloo reserves the right to request an English language test result from any applicant. For students who do not meet the minimum English language requirements, an offer of admission may be extended with requirements to complete specific language training, either prior to (within a conditional offer of admission), or concurrent with, their program registration as an admission requirement. In some programs, and under certain conditions, students may satisfy the English language requirements by either: (a) successfully completing English for Academic Success (EFAS) at the level required for the intended program of study, with an enrichment component in graduate studies preparation, prior to beginning graduate studies. Students completing EFAS will be granted a conditional offer of admission; or (b) completing Effective English Communication for Graduate Students (EECG) courses concurrent with their program registration, within a specified timeframe (normally within the first two terms of registration). For students who meet the

	overall graduate studies alternative minimum English language requirements, EECG courses may be specified at the time of admission as an admission requirement. Failure to meet this requirement, as specified within the students' Letter of Acceptance, would result in students being required to withdrawn from their program of study.

2) English for multilingual speakers (EMLS)

Description and rationale for proposed changes:

The structure of the EMLS courses is changing to align with operational delivery of these courses within Renison. The EMLS course subject name and code are being replaced with the following new subject name and code: Effective English Communication for Graduate Students (EECG). All EECG courses will have a grading basis of CR/NCR to denote completion, with a course weight of 0.0. To record successful completion, students must receive a grade of 75% or higher. These courses do not support any degree requirements of graduate programs, however, could be part of an admission requirement to demonstrate proficiency in English. EECG courses are taught through the Renison English Language Institute.

Renison and GSPA worked in collaboration on the proposed changes which have been endorsed by the Graduate Operations Committee.

Proposed effective date: Term: Spring Year: 2026

Current **Graduate Studies Academic Calendar (GSAC)** page:
https://uwaterloo.ca/academic-calendar/graduate-studies/catalog#/policy/BJI8Fsy0a

Current Calendar copy	Proposed Calendar copy
11.4 ~~English for multilingual speakers (EMLS)~~ ~~Graduate English for Multilingual Speakers (EMLS) credit~~ courses are ~~for~~ registered University of Waterloo graduate students for whom English is a second language, and who want to improve their English language skills, and/or who have been admitted with ~~a departmental requirement~~ to complete ~~an EMLS credit~~ course during their academic program. These courses are offered every term by ~~English Language Studies~~. There are no extra tuition fees for these courses: • ~~EMLS~~ 601R ~~Speaking English for Professional Purposes~~ • ~~EMLS~~ 602R ~~Scholarly Writing in English~~ • ~~EMLS 612R Professional Writing for Engineers~~ • ~~EMLS 621R Speaking Effectively About Your Research~~ • ~~EMLS 622R Thesis Writing in English~~ ~~If you are not a University of Waterloo student, you may take ESL non-credit courses through the English Language Institute.~~	**11.4 Effective English Communication for Graduate Students (EECG)** Effective English Communication for Graduate Students (EECG) courses are available to registered University of Waterloo graduate students for whom English is a second language, and who want to improve their English language skills, and/or who have been admitted with an admission requirement to complete EECG course(s) during their academic program. These courses are offered every term by Renison's English Language Institute. Students must achieve 75% within EECG courses to demonstrate successful completion. There are no extra tuition fees for these courses: • EECG 601R Effective Speaking for Graduate Studies • EECG 602R Effective Writing for Graduate Studies

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

Faculty: Renison

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*):

Changing the subject name and code from English for Multilingual Speakears (EMLS) to Effective English Communication for Graduate Students (EECG). Updating the course description and changing the credit weight from 0.5 to 0.0.

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

Course subject code: EECG

Course number: 601R

Course title (max. 100 characters including spaces):

Current title: Speaking English for Professional Purposes

Revised title: Effective Speaking for Graduate Studies

Course short title (max. 30 characters including spaces): Effective Speaking for Grad

Grading basis: Credit/No Credit

Course credit weight: 0.00

Course consent required: Not required

Course description:

Current description: A focus on speaking, pronunciation, vocabulary, and listening skills helps second language speakers of English in both academic and professional contexts. The course targets pronunciation errors that prevent comprehensibility and develops delivery skills for teaching, presenting papers, and defending theses. It includes strategies for reducing errors in speech and improving listening comprehension.

Revised description: This graduate-level course aims to enhance verbal communication across various academic genres, with a focus on fluency, clarity, and coherence. Students will deliver research-based presentations, participate in seminar discussions, and explain disciplinary concepts to diverse audiences. This course addresses the use of digital tools to support effective multimodal communication. Note: This course is designed specifically for students for whom English is not the first language.

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

Primary course component: Lecture (LEC)

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

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:

To reflect operational changes and the internal Renison shift of instruction for these courses to the English Language Institute (Renison), new course titles and descriptions for 601R and 602R are being submitted. EMLS 612R, 621R and 622R will no longer be offered and will be inactivated. The current English for Multilingual Speakers (EMLS) course subject name and code is being replaced with the following new subject name and code: Effective English Communication for Graduate Students (EECG). The academic group and organization for the courses will remain as Renison.

Form completed by:
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 06/09/25
Department/School approval date (mm/dd/yy):
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: Renison

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*):

Changing the subject name and code from English for Multilingual Speakears (EMLS) to Effective English Communication for Graduate Students (EECG). Updating the course description and changing the credit weight from 0.5 to 0.0.

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

Course subject code: EECG

Course number: 602R

Course title (max. 100 characters including spaces):

Current title: Scholarly Writing in English

Revised title: Effective Writing for Graduate Studies

Course short title (max. 30 characters including spaces): Effective Writing for Grad

Grading basis: Credit/No Credit

Course credit weight: 0.00

Course consent required: Not required

Course description:

Current description: Designed specifically for graduate students for whom English is not the first language, English 602R introduces the skills and knowledge required to write a variety of informative and persuasive documents, both at university and at work. A primary goal is to enhance students' ability to write for readers with varying levels of technical knowledge. To that end, the course focuses not only on vocabulary building (including idioms) but also on clear, concise and correct communication.

Revised description: his graduate-level course is designed to foster critical awareness of disciplinary discourse and writing conventions within students' fields of academic interest. Students will enhance their rhetorical flexibility and precision through writing drafts of scholarly work, including research proposals, literature reviews, data analyses and conference abstracts. Students will have the opportunity to confidently communicate complex ideas in writing while refining digital literacy skills for effective academic writing practices. Note: This course is designed specifically for students for whom English is not the first language.

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

Primary course component: Lecture (LEC)

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

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:

To reflect operational changes and the internal Renison shift of instruction for these courses to the English Language Institute (Renison), new course titles and descriptions for 601R and 602R are being submitted. EMLS 612R, 621R and 622R will no longer be offered and will be inactivated. The current English for Multilingual Speakers (EMLS) course subject name and code is being replaced with the following new subject name and code: Effective English Communication for Graduate Students (EECG). The academic group and organization for the courses will remain as Renison.

Form completed by:
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 06/09/25
Department/School approval date (mm/dd/yy):
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: Renison

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*):

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

Course subject code: EMLS

Course number: 612R

Course title (max. 100 characters including spaces): Professional Writing for Engineers

Course short title (max. 30 characters including spaces):

Grading basis: Choose an item.

Course credit weight: Choose an item.

Course consent required: Choose an item.

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):

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:

To reflect operational changes and the internal Renison shift of instruction for these courses to the English Language Institute (Renison), new course titles and descriptions for 601R and 602R are being submitted. EMLS 612R, 621R and 622R will no longer be offered and will be inactivated. The current English for Multilingual Speakers (EMLS) course subject name and code is being replaced with the following new subject name and code: Effective English Communication for Graduate Students (EECG). The academic group and organization for the courses will remain as Renison.

Form completed by:
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 06/09/25
Department/School approval date (mm/dd/yy):
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: Renison

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*):

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

Course subject code: EMLS

Course number: 621R

Course title (max. 100 characters including spaces): Speaking Effectively About Your Research

Course short title (max. 30 characters including spaces):

Grading basis: Choose an item.

Course credit weight: Choose an item.

Course consent required: Choose an item.

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):

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:

To reflect operational changes and the internal Renison shift of instruction for these courses to the English Language Institute (Renison), new course titles and descriptions for 601R and 602R are being submitted. EMLS 612R, 621R and 622R will no longer be offered and will be inactivated. The current English for Multilingual Speakers (EMLS) course subject name and code is being replaced with the following new subject name and code: Effective English Communication for Graduate Students (EECG). The academic group and organization for the courses will remain as Renison.

Form completed by:
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 06/09/25
Department/School approval date (mm/dd/yy):
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: Renison

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*):

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

Course subject code: EMLS

Course number: 622R

Course title (max. 100 characters including spaces): Thesis Writing in English

Course short title (max. 30 characters including spaces):

Grading basis: Choose an item.

Course credit weight: Choose an item.

Course consent required: Choose an item.

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):

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:

To reflect operational changes and the internal Renison shift of instruction for these courses to the English Language Institute (Renison), new course titles and descriptions for 601R and 602R are being submitted. EMLS 612R, 621R and 622R will no longer be offered and will be inactivated. The current English for Multilingual Speakers (EMLS) course subject name and code is being replaced with the following new subject name and code: Effective English Communication for Graduate Students (EECG). The academic group and organization for the courses will remain as Renison.

Form completed by:
Reviewed by GSPA (for GSPA use only) ☒ date (mm/dd/yy): 06/09/25
Department/School approval date (mm/dd/yy):
Graduate Faculty Sub-Committee approval date (mm/dd/yy):
Faculty Council approval date (mm/dd/yy):

SGRC - Consent Agenda - Faculty of Engineering - June 16, 2025

Meeting Information

Agenda Page Title
SGRC - Consent Agenda - Faculty of Engineering - June 16, 2025

Career Level
Graduate

Faculty/Unit
Engineering

Date
06/16/2025

Time

Location

Summary
Course Changes:

1) Biomedical Engineering: 8 new courses

2) Management Science and Engineering: 1 course revision

3) Systems Design Engineering: 2 course revisions

Programs & Plan Changes:

1) Mechanical and Mechatronics Engineering:
Master of Engineering (MEng) in Mechanical and Mechatronics Engineering
Master of Engineering (MEng) in Mechanical and Mechatronics Engineering - Co-operative Program
Master of Engineering (MEng) in Mechanical and Mechatronics Engineering - Health Technologies - Co-operative Program:
1.1) Removing the Graduate Record Examination (GRE) test from the minimum admission requirements for applicants who completed their undergraduate degree from an institution located outside of Canada or the United States of America.

2) Systems Design Engineering:
Master of Engineering (MEng) in Systems Design Engineering:
2.1) Adding SYDE 770 Topic 39: Deployment of Deep Learn Models to the list of approved electives for our Graduate Specialization in Artificial Intelligence and Machine Learning. Updating the course requirements to allow MEng students to take up to two courses from the Faculty of Mathematics as part of their degree requirements.

3) Biomedical Engineering:
Doctor of Philosophy (PhD) in Biomedical Engineering:
3.1) Revise course requirements for all PhD students (with a Master's degree) to be required to take 4 courses.
3.2) Remove wording that one course shall be taken from outside the Faculty of Engineering.
3.3) Add BME 611, BME 641, and BME 651 to field-specific course requirements list.
Master of Applied Science (MASc) in Biomedical Engineering:
3.4) Remove wording that one course shall be taken from outside the Faculty of Engineering.
3.5) Add BME 611, BME 641, and BME 651 to field-specific course requirements list.

Other Business

Attachment(s)
- MME - MEng GRE - graduate_studies_program_revision_template - Reviewed by GSPA.docx

Course Proposals

Course Proposal Details

Courses: Retire
No proposals have been added.

Courses: New

Code	Title	Type	Workflow Step
BME 611	Materials Biocompatibility	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
BME 641	Medical Imaging	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
BME 651	Big Data Analysis: Health and Biomedical Engineering	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
BME 710	Selected Topics in Biomaterials, Tissue Engineering, and Drug Delivery	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
BME 720	Selected Topics in Biomechanics and Rehabilitation	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
BME 730	Selected Topics in Biomedical Signals and Devices	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
BME 740	Selected Topics in Biomedical Imaging Technology	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
BME 750	Selected Topics in Biomedical Informatics	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review

Courses: Changes

Code	Title	Type	Workflow Step
MSE 744	Intellectual Property Strategy	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
SYDE 677	Medical Imaging	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
SYDE 684	Materials Biocompatibility	Course	SGRC, Senate Graduate and Research Council (SGRC) | Under Review

Programs & Plans Proposals

Programs & Plans Proposal Details

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 Systems Design Engineering	Master of Engineering (MEng) in Systems Design Engineering	Program	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
PhD in Biomedical Engineering	Doctor of Philosophy (PhD) in Biomedical Engineering	Program	SGRC, Senate Graduate and Research Council (SGRC) | Under Review
MASc in Biomedical Engineering	Master of Applied Science (MASc) in Biomedical Engineering	Program	SGRC, Senate Graduate and Research Council (SGRC) | Under Review

Regulations Proposals

Regulations Proposal Details

Regulations: Retire

No proposals have been added.

Regulations: New

No proposals have been added.

Regulations: Changes

No proposals have been added.

BME 611
Materials Biocompatibility

Under Review | Fall 2025

Proposal Information

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career
Graduate

Important!

Quest Course ID
14500

Effective Term and Year
Fall 2025

Offering Number

Proposal Details

Proposal Type
New

Academic Unit Approval
02/28/2025

Rationale for New Course
This course will be given as an option for Biomedical Engineering Graduate students to take it as part of their field-specific course requirement. This will be an option for students in the Biomaterials, Tissue Engineering and Drug Delivery research area.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Engineering

Academic Unit
Dean of Engineering Office

Subject Code
BME

Number
611

Title
Materials Biocompatibility

Abbreviated Title
Materials Biocompatibility

Description
The course covers fundamental topics of biocompatibility of materials in medicine (polymers, ceramics, metals, composites, bioengineered materials). Fundamental principles of materials science (bonding, atomic/molecular structure) as well as interfacial engineering of materials will be reviewed. Materials response to biological systems such as corrosion, degradation, leaching and fracture will be studied in the context of specific biomedical applications. The host response to materials (immune, inflammatory response and coagulation) will also be treated. Specific examples of material interactions with biological systems such as bone, blood, skin and the eye will be studied.

Units
0.50

Exceptions to fees or academic progress units

Components
Lecture

Primary Component
Lecture

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
Yes

Cross-Listed Courses
SYDE 684 - Materials Biocompatibility (0.50)

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
- Complete all of the following
  - Not completed nor concurrently enrolled in: SYDE780 (Topic 2: Biomaterials Science)
  - Not completed nor concurrently enrolled in:
    - SYDE684 - Materials Biocompatibility (0.50)

Course Notes

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

Admin Only - Proposal

Impact Changes

Requisites in Quest
--

Senate Council Meeting Date

Admin Only

Include in Calendar
Graduate

End Date
No Date Chosen

Calendar Activation Date
09/01/2023

Requisite Summary
Antireq: SYDE 780 Topic 2 - Biomaterials Science

Admin Notes

Integration Message

Status (Admin Override)
Active

Quest Course ID (Admin Override)
14500

Offering Number (Admin Override)

BME 641
Medical Imaging

Under Review | Fall 2025

Proposal Information

Workflow Status
In Progress
SGRC, Senate Graduate and Research Council (SGRC)
Waiting for Approval | Approval Delegate(s)

expand

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career
Graduate

Important!

Quest Course ID
3156

Effective Term and Year
Fall 2025

Offering Number

Proposal Details

Proposal Type
New

Academic Unit Approval
02/27/2025

Rationale for New Course
This course will be given as an option for Biomedical Engineering graduate students to take as part of their field-specific course requirement. This will be an option for students in the Biomedical Imaging Technology research area.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Engineering

Academic Unit
Dean of Engineering Office

Subject Code
BME

Number
641

Title
Medical Imaging

Abbreviated Title
Medical Imaging

Description
This course introduces the fundamental concepts for medical imaging which include medical image formation (X-ray, CT, MRI, sonography); storage and formats (DICOM, DICOM RT, PACS); visualization, detection and analysis (enhancement, segmentation, registration, compression); safety and regulations for imaging devices & software (IEEE standards, Health Canada Licensing, FDA Clearance).

Units
0.50

Exceptions to fees or academic progress units

Components
Lecture

Primary Component
Lecture

Grading Information

Grading Basis
Numerical Grading Basis

Cross-Listing Information

Is this course cross-listed?
Yes

Cross-Listed Courses
SYDE 677 - Medical Imaging (0.50)

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:
  - SYDE677 - Medical Imaging (0.50)

Course Notes

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

Admin Only - Proposal

Impact Changes

Requisites in Quest
--

Senate Council Meeting Date

Admin Only

Include in Calendar
Graduate

End Date
No Date Chosen

Calendar Activation Date
09/01/2023

Requisite Summary

Admin Notes

Integration Message

Status (Admin Override)
Active

Quest Course ID (Admin Override)
3156

Offering Number (Admin Override)

BME 651
Big Data Analysis: Health and Biomedical Engineering

Under Review | Fall 2025

Proposal Information

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career
Graduate

Important!

Quest Course ID

Effective Term and Year
Fall 2025

Offering Number

Proposal Details

Proposal Type
New

Academic Unit Approval
02/28/2025

Rationale for New Course
This course has been taught as a topics title course as SYDE 780, Topic 19 Big Data Analysis: Health&BME. This course will be beneficial for BME students to learn more about data analysis in relation to health and biomedical engineering.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Engineering

Academic Unit
Dean of Engineering Office

Subject Code
BME

Number
651

Title
Big Data Analysis: Health and Biomedical Engineering

Abbreviated Title
Big Data Analysis: Health&BME

Description
This course will teach students to define data types and apply appropriate statistical methods to analyze them, define statistical significance, identify issues related to sex and gender, identify limitations of analyses, and communicate analysis results through data visualizations, written communication and presentation.

Units
0.50

Exceptions to fees or academic progress units

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
- Not completed nor concurrently enrolled in: SYDE780 (Topic 19: Big Data & Analysis Approaches - Health & Biomed Eng)

Course Notes

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

Admin Only - Proposal

Impact Changes

Requisites in Quest
--

Senate Council Meeting Date

Admin Only

Include in Calendar

End Date
No Date Chosen

Calendar Activation Date

Requisite Summary

Admin Notes

Integration Message

Status (Admin Override)
Active

Quest Course ID (Admin Override)

Offering Number (Admin Override)

BME 710
Selected Topics in Biomaterials, Tissue Engineering, and Drug Delivery

Under Review | Fall 2025

Proposal Information

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career
Graduate

Important!

Quest Course ID

Effective Term and Year
Fall 2025

Offering Number

Proposal Details

Proposal Type
New

Academic Unit Approval
02/28/2025

Rationale for New Course
This course will give students the option of taking a reading course on topics in Biomaterials, Tissue Engineering, and Drug Delivery. Will also give flexibility to schedule elective courses related to Biomaterials, Tissue Engineering, and Drug Delivery that do not have their own course subject code and number.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Engineering

Academic Unit
Dean of Engineering Office

Subject Code
BME

Number
710

Title
Selected Topics in Biomaterials, Tissue Engineering, and Drug Delivery

Abbreviated Title
Topic Biomat, TissueEng & Drug

Description
Consult the schedule of classes for specific topics being offered.

Units
0.50

Exceptions to fees or academic progress units

Components
ReadingProjectLecture

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?
Yes

Total Completions Allowed
05

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

Admin Only - Proposal

Impact Changes

Requisites in Quest
--

Senate Council Meeting Date

Admin Only

Include in Calendar

End Date
No Date Chosen

Calendar Activation Date

Requisite Summary

Admin Notes

Integration Message

Status (Admin Override)
Active

Quest Course ID (Admin Override)

Offering Number (Admin Override)

BME 720
Selected Topics in Biomechanics and Rehabilitation

Under Review | Fall 2025

Proposal Information

Workflow Status
In Progress
SGRC, Senate Graduate and Research Council (SGRC) expand
Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career
Graduate

Important!

Quest Course ID

Effective Term and Year
Fall 2025

Offering Number

Proposal Details

Proposal Type
New

Academic Unit Approval
02/28/2025

Rationale for New Course
This course will give students the option of taking a reading course on topics in Biomechanics and Rehabilitation. Will also give flexibility to schedule elective courses related to Biomechanics and Rehabilitation that do not have their own course subject code and number.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Engineering

Academic Unit
Dean of Engineering Office

Subject Code
BME

Number
720

Title
Selected Topics in Biomechanics and Rehabilitation

Abbreviated Title
Topics in Biomechanics & Rehab

Description
Consult the schedule of classes for specific topics being offered.

Units
0.50

Exceptions to fees or academic progress units

Components
ReadingProjectLecture

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?
Yes

Total Completions Allowed
05

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

Admin Only - Proposal

Impact Changes

Requisites in Quest
--

Senate Council Meeting Date

Admin Only

Include in Calendar

End Date
No Date Chosen

Calendar Activation Date

Requisite Summary

Admin Notes

Integration Message

Status (Admin Override)
Active

Quest Course ID (Admin Override)

Offering Number (Admin Override)

BME 730
Selected Topics in Biomedical Signals and Devices

Under Review | Fall 2025

Proposal Information

Workflow Status
In Progress

SGRC, Senate Graduate and Research Council (SGRC) expand

Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career
Graduate

Important!

Quest Course ID

Effective Term and Year
Fall 2025

Offering Number

Proposal Details

Proposal Type
New

Academic Unit Approval
02/28/2025

Rationale for New Course
This course will give students the option of taking a reading course on topics in Biomedical Signals and Devices. Will also give flexibility to schedule elective courses related to Biomedical Signals and Devices that do not have their own course subject code and number.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Engineering

Academic Unit
Dean of Engineering Office

Subject Code
BME

Number
730

Title
Selected Topics in Biomedical Signals and Devices

Abbreviated Title
Topics Biomed Signal & Device

Description
Consult the schedule of classes for specific topics being offered.

Units
0.50

Exceptions to fees or academic progress units

Components
ReadingProjectLecture

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?
Yes

Total Completions Allowed
05

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

Admin Only - Proposal

Impact Changes

Requisites in Quest
--

Senate Council Meeting Date

Admin Only

Include in Calendar

End Date
No Date Chosen

Calendar Activation Date

Requisite Summary

Admin Notes

Integration Message

Status (Admin Override)
Active

Quest Course ID (Admin Override)

Offering Number (Admin Override)

BME 740
Selected Topics in Biomedical Imaging Technology

Under Review | Fall 2025

Proposal Information

Workflow Status
In Progress
SGRC, Senate Graduate and Research Council (SGRC) expand
Waiting for Approval | Approval Delegate(s)

- Mike Grivicic
- Tim Weber-Kraljevski
- Diana Goncalves
- Melanie Figueiredo
- Ashley Day

Effective Date & Career

Career
Graduate

Important!

Quest Course ID

Effective Term and Year
Fall 2025

Offering Number

Proposal Details

Proposal Type
New

Academic Unit Approval
02/28/2025

Rationale for New Course
This course will give students the option of taking a reading course on topics in Biomedical Imaging Technology. Will also give flexibility to schedule elective courses related to Biomedical Imaging Technology that do not have their own course subject code and number.

Consultations

Supporting Documentation

Course Information

Faculty
Faculty of Engineering

Academic Unit
Dean of Engineering Office

Subject Code
BME

Number
740

Title
Selected Topics in Biomedical Imaging Technology

Abbreviated Title
Topics in Biomed Imaging Tech

Description
Consult the schedule of classes for specific topics being offered.

Units
0.50

Exceptions to fees or academic progress units

Components
ReadingProjectLecture

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?
Yes

Total Completions Allowed
05

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

Fee Statement

Workflow Information

Workflow Path
Committee approvals

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

Dependencies

Dependent Courses and Programs/Plans
There are no dependencies

Admin Only - Proposal

Impact Changes

Requisites in Quest
--

Senate Council Meeting Date

Admin Only

Include in Calendar

End Date
No Date Chosen

Calendar Activation Date

Requisite Summary

Admin Notes

Integration Message

Status (Admin Override)
Active

Quest Course ID (Admin Override)

Offering Number (Admin Override)