

# Senate Undergraduate Council

## Open & Confidential Session

June 16, 2026

1:00 p.m. to 3:00 p.m.

Needles Hall

NH 3318

Think Differently | Act with Purpose | Work Together

## 2026 06 16 Senate Undergraduate Council Meeting Book

### AGENDA

	1. Governance Resources		
	1.1. Link to Governance Resources		
1:00 p.m.	2. Approval of the Agenda		
	2.1. Conflict of Interest		
	2.2. Approval of the Agenda and Consent Items	Decision	3
	2.3. Business Arising from the Minutes	Information	
	3. Consent Agenda		
	3.1. Minutes of April 7, 2026 Meeting	Decision	4
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	3.2.3. Faculty of Environment	Decision	22
	4. Regular Agenda		
1:05 p.m.	5. Chair's Remarks [DeVidi]	Information	
1:15 p.m.	6. Curricular Submissions		
	6.1. Report from the SUC Curriculum Subcommittee	Information	133
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1:20 p.m.	7. Transnational Education Programs [VanderBurgh]		
	7.1. TNE Programs	Information	150
1:40 p.m.	8. Business Programs and Courses [Weber]		
	8.1. Business Programs and Courses	Information	151
2:00 p.m.	9. Items Removed from the Consent Agenda		
2:05 p.m.	10. Other Business		
	11. Confidential Session		
	12. Confidential Consent Agenda		
	12.1. Minutes of April 7, 2026 Meeting	Decision	152
2:10 p.m.	13. SUC Mandate Review [DeVidi]		
	13.1. SUC Mandate Review	Discussion	153
2:30 p.m.	14. Adjournment		
	Next SUC meeting will be held in Fall 2026.		

**For Approval**

**Open Session**

**To:** Senate Undergraduate Council

**From:** Tony Ly  
Governance Officer

**Date of Meeting:** June 16, 2026

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

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### **2.1. Conflict of Interest**

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

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

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

**Motion:** To approve the agenda as presented/amended, and to approve or receive for information the items on the consent agenda, listed as items 3.1 – 3.2.

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

### **2.3. Business Arising from the Minutes**

None.

**University of Waterloo**  
**SENATE UNDERGRADUATE COUNCIL**  
**Minutes of the April 7, 2026 Meeting**

**Present:** Katherine Acheson, Faisal Al-Faisal, Veronica Austen, Makenzie Campbell, Benoit Charbonneau, Victoria Chu, Ray Darling, Laura Deakin, David DeVidi [Chair], Tanraj Dulai, Leeanne Ferries, Jason Grove, Tony Ly [Secretary], Carol Ann MacGregor, Sean Meehan, Damian Mikhail, Samantha Pater, Cynthia Richard, Sharon Roberts, Joshua Stainton, Robert Stark, Johanna Wandel, Richard Wikkerink

**Resources/Guests:** Melissa Benjamin, Martin Cooke, Angela Christelis, Jennifer Coghlin, John Dick, Shawn Gilbertson, Pam Flutters, Danielle Jeanneault, Carrie MacKinnon Molson, Samir Sharma, Alisa Sivak, Krysta Traianovski, Ian VanderBurgh

**Regrets:** Tom Duever, Vivek Goel, Steven Singh, Helena Shilomboleni, William Wong

**Organization of Meeting:** David DeVidi took the chair and Tony Ly acted as secretary. The secretary advised that quorum was present.

### **1. Governance Resources**

This item was provided for information only.

### **2. Approval of the Agenda**

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

#### **2.1. Conflict of Interest**

No conflicts of interest were declared.

#### **2.2. Approval of the Agenda and Consent Items**

Council approved the agenda as distributed.

#### **2.3. Business Arising from the Minutes**

The Chair provided an overview of the pathways for renewal of agreements and new agreements. Renewal of agreements will be going forward to Senate Undergraduate Council for information only. New agreements are only brought forward for approval should they contain impacts to curriculum or other major/minor modifications that would otherwise be under the mandate of Senate Undergraduate Council. The Chair spoke to the memo for the Senate Alternative Credentials Committee. Concerns were raised about the memo not addressing all of the comments and feedback provided by Senators.

### **3. Consent Agenda**

Council approved items 3.1 and 3.2 on behalf of Senate.

#### **3.1. Minutes of February 4, 2026 Meeting**

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

#### **3.2 Curricular Submissions**

Council received for information item 3.2.1 and approved items 3.2.2 – 3.2.3 on behalf of Senate.

#### **4. Regular Agenda**

#### **5. Chair's Remarks**

The Chair welcomed new members to the Senate Undergraduate Council including the new Registrar and student leaders. The Chair expressed appreciation for a council member, Benoit Charbonneau, support and contribution to Senate Undergraduate Council and the Curriculum Subcommittee.

#### **6. Curricular Submissions**

##### **6.1. Report from the SUC Curriculum Subcommittee**

Council received a report from the SUC Curriculum Subcommittee for information only.

##### **6.2. Faculty of Science**

Deakin presented the major modifications from the Faculty of Science. The proposed changes to remove three Science and Business specializations is aligned with evolving processes. A future proposal for a biotechnology option or minor is anticipated.

A motion was heard to recommend to SUC that Senate approve the major plan modifications for the Biochemistry Specialization, Biology Specialization, and Biotechnology Specialization for the Faculty of Science, effective September 1, 2027. Deakin and Ferries. Carried.

#### **7. EdTech Fee**

Fluttert and Gilbertson provided a presentation on the Edtech project and proposed ancillary fee. The proposal aims to address gaps previously identified such as the rising cost of technology and duplication of tools and services across campus. The proposed 2-year pilot project introduces a new \$25 ancillary fee for full-time students. There will be a list of centrally supported software that will reduce duplication and extra costs for educational technology in the classroom. Members expressed general support for improving coordination and cost efficiency, but raised concerns about instructor autonomy, government regulations, and the need for transparency in student costs. Additional consultation will occur with members of the campus community.

#### **8. Velocity Resources and Support for Undergraduate Students**

Dick and Traianovski provided a presentation about Velocity and highlighted various programs and funding opportunities that are available for students, staff, and faculty members. Velocity initiatives have demonstrated strong outcomes including high startup survival rates. Velocity aims to bridge the gap into industry by helping entrepreneurs develop new skills and create sustainable impact through its programming. The resources available at Velocity will support student entrepreneurs navigate transition to full-time opportunities, broaden engagement across faculties, and expand co-curricular learning opportunities. Council members emphasized the importance of further outreach to increase awareness of services and clearer pathways for student involvement.

#### **9. Items Removed from the Consent Agenda**

No item was removed from the consent agenda.

#### **10. Other Business**

No other items of business were identified.

#### **11. Confidential Session**

#### **12. SUC Mandate Review**

Confidential minutes have been removed.

#### **13. Adjournment**

With no further business, the meeting was adjourned. The next meeting of the Senate Undergraduate Council will be held on June 16, 2026 from 1:00 - 3:00 p.m.

**For Approval****Consent Agenda**

<b>To:</b>	Senate Undergraduate Council
<b>Sponsor/Presenter:</b>	David DeVidi, Associate Vice-President, Academic
<b>Date of Meeting:</b>	June 16, 2026
<b>Agenda Item Identification:</b>	3.2.1. SUC Curriculum Subcommittee Report: Consent Agenda for Approval

**Recommendation/Motion**

To approve the following curricular motions on behalf of Senate, as presented:

Faculty of Engineering – Consent Agenda

To recommend that SUC approve, through its consent agenda, the submitted new course and course changes for the Faculty of Engineering, effective September 1, 2027, as presented.

Faculty of Environment – Consent Agenda

To recommend that SUC approve, through its consent agenda, the submitted retired courses, course changes, and minor plan modifications for the Faculty of Environment, effective September 1, 2027, as presented.

**Summary**

The SUC Curriculum Subcommittee has reviewed and agreed, via an e-vote which closed on June 5, 2026 to recommend to SUC for approval or receive for information as part of the consent agenda, the items included in the subsequent sections of this report (3.2.2 – 3.2.3).

To support easier navigation, items are also available in Quali Curriculum Management (CM) via the following links. Please review the [online guide](#) for additional information about Quali CM. If you have any issues accessing the links below, please contact Tony Ly, Governance Officer, for support.

- i. [Faculty of Engineering – Consent Agenda](#)
- ii. [Faculty of Environment – Consent Agenda](#)

**Jurisdictional Information**

As provided for in [Senate Bylaw 2](#), section 5.03, council is empowered to make approvals on behalf of Senate for a variety of operational matters:

- c. Make recommendations to Senate with respect to new undergraduate programs/plans, the deletion of undergraduate programs/plans, and major changes to undergraduate programs/plans.

**Governance Path**

Senate Undergraduate Council, Curriculum Subcommittee: June 5, 2026 (via e-vote)  
Senate Undergraduate Council: June 16, 2026 (prospective)

**Documents Included**

- 3.2.2. Faculty of Engineering
- 3.2.3. Faculty of Environment



**Date 2026/06/01**

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## Meeting Information

### Agenda Page Title

SUC - 2026-06 - Consent Agenda - Faculty of Engineering

### Career Level

Undergraduate,

### Faculty/Unit

Engineering

### Date

2026-06-16

### Time

### Location

### Summary

**Undergraduate Studies Submission for SUC - Consent Agenda - June, 2026**

### Other Business

# Course Proposals

## Course Proposal Details

### New Courses:

MSE 335 - Supply Chain Management for Business

### Course Changes:

CHE 230 - Updated title, abbreviated title and description

### **Courses: Retire**

No proposals have been added.

### **Courses: New**

Code	Title	Type	Workflow Step
<a href="#">MSE 335</a>	Supply Chain Management for Business	Courses	SUC Subcommittee, SUC Curricular Subcommittee

### **Courses: Changes**

Code	Title	Type	Workflow Step
<a href="#">CHE 230</a>	Physical Chemistry	Courses	SUC Subcommittee, SUC Curricular Subcommittee

## Programs & Plans Proposals

**Programs & Plans: Retire**  
No proposals have been added.

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

**Programs & Plans: Minor Modifications**  
No proposals have been added.

## Regulations Proposals

**Regulations: Retire**  
No proposals have been added.

**Regulations: New**  
No proposals have been added.

**Regulations: Changes**  
No proposals have been added.

# MSE 335 - Supply Chain Management for Business

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## Effective Date & Career

**Career**  
Undergraduate

**Important! (READ ME)**

**Important!**

**Effective Term and Year**  
Fall 2027

**Quest Course ID**

**Offering Number**

## Proposal Details

**Proposal Type**

New

**Academic Unit Approval**

2026-03-18

**Last Offering of Course**

**Retired Impact**

**Retired Impact Details**

**Unit Weight/Number Changes**

**High Impact Changes - Please Read**

### **Rationale for New Course**

This is a new course that will serve as a core course in Sc Bus, as well as available to other students (e.g, AFM, Sc FM). Broadly, this is an introductory supply chain management course that may be of interest to any student on campus interested to learn more about the area. The course will not be open to engineering students, who have access to other courses on the topic (current anti-reqs) that are more technical (include engineering science and engineering design) and can count as technical electives (where applicable).

### **Rationale for Change**

### **Consultations**

The course design followed initial consultations between Management Science and Engineering (Mark Hancock, Chair and Ada Hurst, Associate Chair Undergraduate Studies) and the School of Accounting and Finance (Blake Phillips, Chair), who provided the SCBUS program needs for a supply chain management course. Following this meeting, MSE created the proposal through

internal consultation with various faculty members that teach supply chain management topics in the department.

All units responsible for the pre-reqs have been contacted. See attached the two emails provided. The final list of pre-reqs reflects their feedback.

### Supporting Documentation

- [MSE 335 Supply Chain Management for Business v.2.docx](#)
- [Pre-req consultation email 1.pdf](#)
- [Pre-req consultation email 2.pdf](#)

## Course Information

### Faculty

Faculty of Engineering

### Academic Unit

Department of Management  
Science and Engineering

### Subject Code

MSE

### Number

335

### Course Level

300

### Title

Supply Chain Management for Business

### Abbreviated Title

Supply Chain Mgmt for Business

### Undergraduate Communication Requirement Identifier

No

## Description

This course covers supply chain functions, operations, and entities from a business perspective, with a focus on the flow of information and materials across suppliers, manufacturers, distributors, and retailers. Topics include supply chain strategy, network design, demand forecasting, inventory management, coordination, supplier selection, resilience, and sustainability. Emphasis is placed on managerial trade-offs and real-world applications.

## Units

0.50

## Exceptions to Fees or Academic Progress Units

No

## Components

Lecture

## Primary Component

Lecture

## Grading Information

### Standard Course Grading

Yes

### Special Course Grading

### Grading Basis

## Cross-Listing Information

### Is this course cross-listed?

No

### Cross-Listed Courses

## Repeatable Courses

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

No

**Total Completions Allowed**

**Allow Multiple Enrol in a Term**

## Enrolment Rules

**Consent to Add**

No consent required

**Consent to Drop**

No consent required

### Prerequisites

- **Must have completed at least 1 of the following:**
  - **AFM113 - Analytic Methods for Business 2 (0.50)**
  - **ARTS280 - Statistics for Arts Students (0.50)**
  - **ECON221 - Statistics for Economists (0.50)**
  - **ENVS278 - Applied Statistics for Environmental Research (0.50)**
  - **HLTH204 - Quantitative Approaches to Health Science (0.50)**
  - **KIN232 - Research Design and Statistics (0.50)**
  - **LS280 - Social Statistics (0.50)**
  - **PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)**
  - **PSCI314 - Quantitative Analysis (0.50)**
  - **PSYCH292 - Basic Data Analysis (0.50)**
  - **REC371 - Quantitative Data Analysis and Mobilization (0.50)**
  - **SDS250R - Social Statistics (0.50)**
  - **SOC280 - Social Statistics (0.50)**
  - **SRF230 - Introduction to Statistics (0.50)**
  - **STAT202 - Introductory Statistics for Scientists (0.50)**
  - **STAT221 - Statistics (Non-Specialist Level) (0.50)**
  - **STAT231 - Statistics (0.50)**
  - **STAT241 - Statistics (Advanced Level) (0.50)**

## Corequisites

## Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
  - **MSE334 - Operations Planning and Inventory Control (0.50)**
  - **MSE432 - Production and Service Operations Management (0.50)**
  - **MSE434 - Supply Chain Management (0.50)**
  - **H-Software Engineering - Software Engineering (Bachelor of Software Engineering - Honours)**
  - **Not open to students enrolled in Bachelor of Applied Science programs**

## Course Notes

### Fee Statement

### Notes

## Workflow Information

**Workflow Path**  
Committee approvals

**Faculty/AFIW Path(s) for  
Workflow**

Faculty of Engineering

## Dependencies

There are no dependencies

# CHE 230 - Physical Chemistry

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## Effective Date & Career

### Career

Undergraduate

### Important! (READ ME)

### Important!

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2024

### Quest Course ID

3951

### Offering Number

1

## Proposal Details

### Proposal Type

Change

### Academic Unit Approval

2025-04-14

### Last Offering of Course

### Retired Impact

## Retired Impact Details

**Unit Weight/Number Changes**  
No

**High Impact Changes - Please Read**

### Rationale for New Course

### Rationale for Change

Curriculum changes passed for the 2025 calendar consolidated physical chemistry content from two courses (CHE 230/231) into one (CHE 230). The course title and description are now being updated to reflect the new content, coinciding with the timing for the 2025 incoming cohort to take the course.

CHE 231 to retire Fall 2028.

### Consultations

Email with Steve Forsey dated March 29, 2025 confirming change does not impact course inclusion for Physical Sciences Option.

Faculty of Math informed: Email with Eduardo Martin-Martinez dated March 28, 2025. Removal of CHE231 will impact the Engineering Specialization in Applied Math which currently requires students to complete both CHE230 and CHE231.

### Supporting Documentation

## Course Information

**Faculty**

**Academic Unit**

**Subject Code**

CHE

**Number**

230

**Course Level**

200

**Title**

Proposed

**Title**

Physical Chemistry

Existing

**Title**

Physical Chemistry 1

**Abbreviated Title**

Proposed

**Abbreviated Title**

Physical Chemistry

Existing

**Abbreviated Title**

Physical Chemistry 1

**Undergraduate Communication  
Requirement Identifier**

No

**Description**

Proposed

**Description**

First and second law of thermodynamics: internal energy, enthalpy, entropy, chemical potential. Spontaneity and equilibrium, free energies. Systems of variable composition, chemical equilibrium. Solution thermodynamics of ideal and non-ideal solutions. Physical chemistry of surfaces: surface tension, capillarity, properties of small particles.

Existing

### Description

Thermodynamics: work and heat as forms of energy. First law, internal energy and enthalpy. Heats of chemical and physical changes. Cycles and the second law, entropy. Spontaneity and equilibrium, free energies. Systems of variable composition, chemical equilibrium. Phase equilibrium and the phase rule. Ideal solutions, colligative properties.

### Units

0.50

### Exceptions to Fees or Academic Progress Units

No

### Components

Lecture

Tutorial

### Primary Component

Lecture

## Grading Information

### Standard Course Grading

Yes

### Special Course Grading

### Grading Basis

## Cross-Listing Information

### Is this course cross-listed?

No

### **Cross-Listed Courses**

## **Repeatable Courses**

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

No

**Total Completions Allowed**

**Allow Multiple Enrol in a Term**

## **Enrolment Rules**

**Consent to Add**

No consent required

**Consent to Drop**

Department consent required

**Prerequisites**

- **Enrolled in:**
  - **H-Chemical Engineering - Chemical Engineering (Bachelor of Applied Science - Honours)**

**Corequisites**

**Antirequisites**

## Course Notes

### Fee Statement

### Notes

## Workflow Information

### Workflow Path

Committee approvals

### Faculty/AFIW Path(s) for Workflow

Faculty of Engineering

## Dependencies

### Required Courses (Term by Term)

- H-Chemical Engineering - Chemical Engineering (Bachelor of Applied Science - Honours) [View Program](#)

### Course Requirements (no units)

- Physical Sciences Option - Physical Sciences Option [View Program](#)
- AMATH-Engineering Specialization - Engineering Specialization [View Program](#)

Date 2026/05/29

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## Meeting Information

### Agenda Page Title

SUC - 2026-06 - Consent Agenda - Faculty of Environment

**Career Level**  
Undergraduate,

**Faculty/Unit**  
Faculty of Environment

**Date**  
2026-06-16

### Summary

### Other Business

Information items:

1. Future Cities: The following note has been added to 2026/2027 calendar pausing this diploma:

A request to retire the Diploma in Future Cities at the University of Waterloo is underway in 2026. As a result, the Diploma in Future Cities is currently paused and is not open to new entrants. Students who believe they are already working toward completion of this Diploma must contact the Faculty of Environment for academic guidance prior to the start of the winter 2027 term.

Attachment(s)

## Course Proposals

### Course Proposal Details

Retired courses:

- Part of the PLAN restructuring effective 2024: PLAN350
- Part of the GEM restructuring effective 2026: GEOG293, GEOG294, GEOG310, GEOG391
- No longer being offered: INDEV262

Changes:

- Adding a component: ENVS195
- Adding/removing components: ERS316
- Remove cross-listing: PLAN262
- Title and description change: ENBUS408, ENBUS410

### Courses: Retire

Code	Title	Type	Workflow Step
<a href="#">GEOG 293</a>	Approaches to Research in Human Geography	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">GEOG 294</a>	Approaches to Research in Physical Geography	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">GEOG 310</a>	Geodesy and Surveying	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">GEOG 391</a>	Field Research	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">INDEV 262</a>	Introduction to Global Emerging Cities	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">PLAN 350</a>	Research Methods for Planners	Courses	SUC Subcommittee, SUC Curricular Subcommittee

### Courses: New

No proposals have been added.

### Courses: Changes

Code	Title	Type	Workflow Step
<a href="#">ENBUS 408</a>	How Governments Build: Policy Tools for an Abundant Future	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">ENBUS 410</a>	Managing Competing Interests in Practice	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">ENVS 195</a>	Introduction to Environmental Studies	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">ERS 316</a>	Urban Water and Wastewater Systems: Integrated Planning and Management	Courses	SUC Subcommittee, SUC Curricular Subcommittee

<a href="#">PLAN 262</a>	Introduction to Global Emerging Cities	Courses	SUC Subcommittee, SUC Curricular Subcommittee
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## Programs & Plans Proposals

### Programs & Plans Proposal Details

Minor modifications:

- Removal of retired course(s): H-Knowledge Integration; KI-Science, Technology, and Society Specialization; Urban Studies Minor; Diploma in Environmental Assessment
- Addition of core courses: H-Environment, Resources and Sustainability
- Addition to approved course list: Environment, Society and Well-Being Specialization (CEC-, GDS-, GEM-, and GA-)

### 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
<a href="#">Environmental Assessment Diploma</a>	Diploma in Environmental Assessment	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">H-Environment, Resources &amp; Sustainability</a>	Environment, Resources and Sustainability (Bachelor of Environmental Studies - Honours)	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">CEC-Environment, Society &amp; Well-Being Specialization</a>	Environment, Society and Well-Being Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">GA-Environment, Society &amp; Well-Being Specialization</a>	Environment, Society and Well-Being Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">GDS-Environment, Society &amp; Well-Being Specialization</a>	Environment, Society and Well-Being Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">GEM-Environment, Society &amp; Well-Being Specialization</a>	Environment, Society and Well-Being Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee

<a href="#">H-Knowledge Integration</a>	Knowledge Integration (Bachelor of Knowledge Integration - Honours)	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">KI-Science, Technology, &amp; Society Specialization</a>	Science, Technology, and Society Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">Urban Studies Minor</a>	Urban Studies Minor	Programs	SUC Subcommittee, SUC Curricular Subcommittee

## Regulations Proposals

### Regulations: Retire

No proposals have been added.

### Regulations: New

No proposals have been added.

### Regulations: Changes

No proposals have been added.

# GEOG 293 - Approaches to Research in Human Geography

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## Effective Date & Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

### Quest Course ID

5982

### Offering Number

1

## Proposal Details

### Proposal Type

Retire

### Last Offering of Course

Fall 2026

### Retired Impact

No

### Rationale for Change

GEOG293 was removed from all dependencies, except GEOG391, effective September 2026. Retirement was delayed until 2027 as it need to be offered one last time, Fall 2026, for students currently in plans offered by Geography and Environmental Management in which this course was a listed requirement (Geomatics, Geography and Environmental Management Honours and Joint, Geography and Aviation, and the Economy and Society specialization).

Related agenda proposals:

- GEOG391

### Consultations

No consultations required.

## Course Information

### Faculty

Faculty of Environment

### Academic Unit

Department of Geography and Environmental Management

### Subject Code

GEOG

### Number

293

### Course Level

200

### Title

## Approaches to Research in Human Geography

**Abbreviated Title**

Human Geog Research Approaches

**Undergraduate Communication Requirement Identifier**

No

**Description**

This course develops student skills in the area of research in human geography emphasizing all aspects of design, measurement, and evaluation with a particular emphasis on personal transferable skills (e.g., oral and written communication, working as part of a team).

**Units**

0.50

**Exceptions to Fees or Academic Progress Units**

No

**Components**

Lecture Tutorial

**Primary Component**

Lecture

## Grading Information

**Standard Course Grading**

Yes

## Cross-Listing Information

**Is this course cross-listed?**

No

## Repeatable Courses

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

No

## Enrolment Rules

### Consent to Add

No consent required

### Consent to Drop

No consent required

### Prerequisites

- **Enrolled in:**
  - **H-Geography & Aviation - Geography and Aviation (Bachelor of Environmental Studies - Honours)**
  - **H-Geography & Environmental Management - Geography and Environmental Management (Bachelor of Environmental Studies - Honours)**
  - **JH-Geography & Environmental Management - Geography and Environmental Management (Joint Honours)**
  - **Geography & Environmental Management Minor - Geography and Environmental Management Minor**
  - **H-Geospatial Data Science - Geospatial Data Science (Bachelor of Environmental Studies - Honours)**
  - **Enrolled in H-Geomatics**

### Corequisites

### Antirequisites

## Course Notes

## Workflow Information

### Workflow Path

Committee approvals

### Faculty/AFIW Path(s) for Workflow

Faculty of Environment

## Dependencies

### Antirequisites

- GEOG 390 - Research Methods and Design

[View Program](#)

### Prerequisites

- GEOG 391 - Field Research
- GEOG 415 - Economy and Society Project
- GEOG 452 - Climate Change and Environment Project
- GEOG 392 - International Field Research

[View Program](#)

[View Program](#)

[View Program](#)

[View Program](#)

# GEOG 294 - Approaches to Research in Physical Geography

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## Effective Date & Career

### Career

Undergraduate

### Effective Term and Year

Proposed

Effective Term and Year

Fall 2027

Existing

Effective Term and Year

Fall 2026

### Quest Course ID

12888

### Offering Number

1

## Proposal Details

### Proposal Type

Retire

### Last Offering of Course

Fall 2026

### Retired Impact

No

### Rationale for Change

GEOG294 was removed from all dependencies, except GEOG391, effective September 2026. Retirement was delayed until 2027 as it need to be offered one last time, Fall 2026, for students currently in plans offered by Geography and Environmental Management in which this course was a listed requirement (Geomatics, Geography and Environmental Management Honours and Joint, Geography and Aviation, Climate and Environmental Change).

Related agenda proposals:

- GEOG391

### Consultations

None req'd

## Course Information

### Faculty

Faculty of Environment

### Academic Unit

Department of Geography and Environmental Management

### Subject Code

GEOG

### Number

294

### Course Level

200

### Title

Approaches to Research in Physical Geography

### Abbreviated Title

Approach to Res in Phys Geog

### Undergraduate Communication Requirement Identifier

No

### Description

Introduces skills for conducting research in physical geography. Selected techniques used in climatology, hydrology, geomorphology, and/or biogeography research will be demonstrated and the principles behind the techniques will be explained. Students get hands on experience in research design, field and laboratory techniques, data assembly, and the interpretation of data.

**Units**

0.50

**Exceptions to Fees or Academic Progress Units**

No

**Components**

Lecture Laboratory

**Primary Component**

Lecture

## Grading Information

**Standard Course Grading**

Yes

## Cross-Listing Information

**Is this course cross-listed?**

No

## Repeatable Courses

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

No

## Enrolment Rules

**Consent to Add**

No consent required

**Consent to Drop**

No consent required

**Prerequisites**

- **Enrolled in:**
  - **H-Climate & Environmental Change - Climate and Environmental Change (Bachelor of Science - Honours)**
  - **H-Geography & Aviation - Geography and Aviation (Bachelor of Environmental Studies - Honours)**
  - **H-Geography & Environmental Management - Geography and Environmental Management (Bachelor of Environmental Studies - Honours)**
  - **JH-Geography & Environmental Management - Geography and Environmental Management (Joint Honours)**
  - **H-Geospatial Data Science - Geospatial Data Science (Bachelor of Environmental Studies - Honours)**
  - **Enrolled in H-Geomatics**

**Corequisites**

**Antirequisites**

**Course Notes**

**Workflow Information**

**Workflow Path**  
Committee approvals

**Faculty/AFIW Path(s) for Workflow**

Faculty of Environment

**Dependencies**

### Antirequisites

- GEOG 390 - Research Methods and Design

[View Program](#)

### Prerequisites

- GEOG 391 - Field Research
- GEOG 452 - Climate Change and Environment Project
- GEOG 392 - International Field Research

[View Program](#)

[View Program](#)

[View Program](#)

## GEOG 310 - Geodesy and Surveying

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### Effective Date & Career

#### Career

Undergraduate

#### Effective Term and Year

Proposed

Effective Term and  
Year

Fall 2027

Existing

Effective Term and  
Year

Fall 2026

#### Quest Course ID

12606

#### Offering Number

1

### Proposal Details

#### Proposal Type

Retire

#### Last Offering of Course

Fall 2026

#### Retired Impact

No

### Rationale for Change

Retirement of the course reflects the restructuring of the GEM plans effective September 2026. This course needed to remain on the books for one last offering, Fall 2026, for students currently in the GEM plans for which this course was a requirement prior to September 2026 (Geomatics [now Geospatial Data Science], Geomatics Specialization [retired], and Climate and Environmental Change).

Related agenda proposals:

- H-Knowledge Integration

### Consultations

None required

## Course Information

#### Faculty

Faculty of Environment

#### Academic Unit

Department of Geography and Environmental Management

#### Subject Code

GEOG

#### Number

310

#### Course Level

300

#### Title

Geodesy and Surveying

#### Abbreviated Title

Geodesy & Surveying

#### Undergraduate Communication Requirement Identifier

No

#### Description

Concepts of geodesy and surveying, Earth's gravity field and the geoid, and measurement techniques applied to geomatics are examined. Field studies include the use of the level, the total station, and GPS for doing distance and angle measurements, leveling, traversing, and topographic surveying.

#### Units

#### Exceptions to Fees or Academic Progress

0.50

**Units**

No

**Components**

Laboratory   Lecture

**Primary Component**

Lecture

## Grading Information

**Standard Course Grading**

Yes

## 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 at least 1 of the following:**
  - **GDS181 - Designing Effective Maps (0.50)**
  - **GDS187 - Geospatial Data Science (0.50)**
  - **Must have completed at least 1 of the following: GEOG181, GEOG187**

**Corequisites**

**Antirequisites**

**Course Notes**

**Workflow Information**

**Workflow Path**  
Committee approvals

**Faculty/AFIW Path(s) for Workflow**

Faculty of Environment

**Dependencies**

**Course Lists**

- H-Knowledge Integration - Knowledge Integration (Bachelor of Knowledge Integration - Honours) [View Program](#)

# GEOG 391 - Field Research

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**Effective Date & Career**

**Career**  
Undergraduate

**Effective Term and Year**

Proposed

**Effective Term and Year**  
Fall 2027

**Quest Course ID**

5978

Existing  
Effective Term and  
Year  
Fall 2026

**Offering Number**

1

## Proposal Details

**Proposal Type**

Retire

**Last Offering of Course**

Fall 2026

**Retired Impact**

No

**Rationale for Change**

Course retirement is part of the GEM restructuring that occurred effective September 2026. The course needed to remain on the books for one last offering for students currently in GEM plans for which this course was required.

Related agenda proposals:

- Diploma in Environmental Assessment

**Consultations**

None req'd

## Course Information

**Faculty**

**Academic Unit**

Faculty of Environment

Department of Geography and Environmental  
Management

**Subject Code**

GEOG

**Number**

391

**Course Level**

300

**Title**

Field Research

**Abbreviated Title**

Field Research

**Undergraduate Communication  
Requirement Identifier**

No

**Description**

Field research course in which a specific area will be analyzed from a geographic point of view. Individual or group analysis of specific field problems.

**Units**

0.50

**Exceptions to Fees or Academic Progress  
Units**

No

**Components**

Field Studies Tutorial

**Primary Component**

Tutorial

## Grading Information

**Standard Course Grading**

Yes

## 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:**
  - **ENVS278 - Applied Statistics for Environmental Research (0.50)**
  - **Must have completed at least 1 of the following:**
  - **GEOG293 - Approaches to Research in Human Geography (0.50)**
  - **GEOG294 - Approaches to Research in Physical Geography (0.50)**

### Corequisites

### Antirequisites

- **Not completed any of the following: GEOG392**

## Course Notes

### Fee Statement

This course may have additional fees. See academic unit for details.

## Workflow Information

### Workflow Path

### Faculty/AFIW Path(s) for Workflow

## Dependencies

### Antirequisites

- GEOG 390 - Research Methods and Design
- GEOG 392 - International Field Research

[View Program](#)

[View Program](#)

### Course Lists

- Environmental Assessment Diploma - Diploma in Environmental Assessment

[View Program](#)

# INDEV 262 - Introduction to Global Emerging Cities

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## Effective Date & Career

### Career

Undergraduate

### Effective Term and Year

Proposed

Effective Term and Year

Fall 2027

Existing

Effective Term and Year

Fall 2023

### Quest Course ID

15434

### Offering Number

2

## Proposal Details

### Proposal Type

Retire

**Last Offering of Course**

Fall 2024

**Retired Impact**

Yes

**Retired Impact Details**

INDEV 262 is listed in a long list of courses that could be taken to achieve the ENG Science, Technology, and Values Diploma. Removal of this course should have no impact on the students' ability to obtain this diploma. The Urban Studies minor wording will have to be reworked, though no impact as PLAN 262 is also listed as an alternative course.

**Rationale for Change**

The INDEV program is being phased out, as such INDEV courses that are not required for the plan are strategically being retired. The course has been taught as cross-listed with PLAN 262 which will remain to be offered.

Related agenda proposals:

- PLAN262
- Urban Studies Minor
- KI - Science, Technology, and Society Specialization

**Consultations**

Have discussed the retirement with Planning.

STV and KI have been informed.

**Course Information**

**Faculty**

**Academic Unit**

<b>Subject Code</b>	<b>Number</b>	<b>Course Level</b>
INDEV	262	200

**Title**

Introduction to Global Emerging Cities

**Abbreviated Title**

Intro Global Emerging Cities

**Undergraduate Communication  
Requirement Identifier**

No

**Description**

This course focuses on the dynamics of growth and change in global emerging cities, with a focus on the urban transition underway in cities, with emphasis on Asia and Africa. Current urban challenges (e.g. social inequality, uneven development, climate change) are discussed, as well as opportunities for innovative planning and sustainable urban development.

**Units**

0.50

**Exceptions to Fees or Academic Progress  
Units**

No

**Components**

Lecture

**Primary Component**

Lecture

**Grading Information****Standard Course Grading**

Yes

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

Yes

## Cross-Listed Courses

[PLAN 262](#) - Introduction to Global Emerging Cities

## 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**

**Corequisites**

**Antirequisites**

## Course Notes

## Workflow Information

**Workflow Path**

Committee approvals

**Faculty/AFIW Path(s) for Workflow**

Faculty of Environment

## Dependencies

### Course Requirements (units)

- Society, Technology & Values Diploma - Diploma in Society, Technology and Values
- Urban Studies Minor - Urban Studies Minor [View Program](#) [View Program](#)
- KI-Science, Technology, & Society Specialization - Science, Technology, and Society Specialization [View Program](#)

# PLAN 350 - Research Methods for Planners

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## Effective Date & Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

### Quest Course ID

7562

### Offering Number

1

## Proposal Details

### Proposal Type

Retire

### Last Offering of Course

Spring 2026

### Retired Impact

No

### Rationale for Change

This class is now redundant given new curriculum content effective 2024; research and analysis are also covered in several core classes. The retirement of this course was delayed, to accommodate students who began the plan prior to 2024.

This course will be removed from the antireqs for INTEG340, ERS302, ENBUS306, and GEOG390, once 5 years from the last offering has passed (2031).

Related agenda proposals: N/A

### Consultations

No consultations req'd

## Course Information

### Faculty

Faculty of Environment

### Academic Unit

School of Planning

### Subject Code

PLAN

### Number

350

### Course Level

300

### Title

Research Methods for Planners

### Abbreviated Title

Planning Research Methods

### Undergraduate Communication Requirement Identifier

No

### Description

This course develops the capacity of students to apply research methods to planning-related issues. Examination of a variety of alternative approaches to designing and conducting research. Students learn how to become informed consumers and producers of planning-related research.

### Units

0.50

### Exceptions to Fees or Academic Progress Units

No

### Components

Laboratory

Lecture

Tutorial

### Primary Component

Lecture

## Grading Information

### Standard Course Grading

Yes

## 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:**
  - **ENVS278 - Applied Statistics for Environmental Research (0.50)**
  - **Must have completed at least 1 of the following:**
  - **GDS281 - Introduction to Geographic Information Systems (GIS) (0.50)**
  - **PLAN281 - Introduction to Geographic Information Systems (GIS) (0.50)**
  - **Must have completed the following: GEOG281**

## Corequisites

## Antirequisites

- **Not completed nor concurrently enrolled in any of the following:**
  - **ENBUS306 - Research Design (0.50)**
  - **ERS302 - Research Methods and Design (0.50)**
  - **INTEG340 - Research Design and Methods (0.50)**

## Course Notes

## Workflow Information

**Workflow Path**  
Committee approvals

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

## Dependencies

### Antirequisites

- ERS 302 - Research Methods and Design [View Program](#)
- ENBUS 306 - Research Design [View Program](#)
- GEOG 390 - Research Methods and Design [View Program](#)

# ENBUS 408 - How Governments Build: Policy Tools for an Abundant Future

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## Effective Date & Career

**Career**

Undergraduate

**Effective Term and Year**

Proposed

**Effective Term and Year**

Fall 2027

Existing

**Effective Term and Year**

Fall 2025

**Quest Course ID**

12904

**Offering Number**

1

## Proposal Details

**Proposal Type**

Change

**Academic Unit Approval**

2026-02-06

**Unit Weight/Number Changes**

No

**Rationale for Change**

The course instructor has proposed the following changes to the course title and description to better suit the course material.

Related agenda proposals: N/A

## Consultations

SEED and SFM consulted.

## Course Information

### Faculty

Faculty of Environment

### Academic Unit

School of Environment, Enterprise and Development

### Subject Code

ENBUS

### Number

408

### Course Level

400

### Title

Proposed

#### Title

How Governments Build: Policy Tools for an Abundant Future

Existing

#### Title

Policy Instruments for Sustainability

### Abbreviated Title

Proposed

#### Abbreviated Title

Policy for an Abundant Future

Existing

#### Abbreviated Title

Policy Instruments for Sust

### Undergraduate Communication Requirement Identifier

No

### Description

Proposed

#### Description

Governments face growing pressure to deliver large-scale solutions to challenges such as housing

affordability, energy transitions, health care capacity, infrastructure renewal, and economic resilience. These challenges often persist not due to lack of demand, but because institutions and policy tools struggle to build and scale effectively. Using an abundance lens, this course examines how public policy can expand supply, strengthen state capacity, and accelerate implementation while maintaining public value. Drawing primarily on Canadian case studies across housing, energy, health care, transportation, insurance, and emerging technologies, students analyze why some policies succeed at scale while others stall, and develop applied policy analysis and proposal skills relevant to public-sector careers.

Existing

### Description

This course provides students with knowledge of the different regulatory approaches to managing environment and resources with a focus on the policy dimensions of regulatory instrument choice and design. The course examines market-based, regulatory, and behaviour change policy tools in relation to how they protect the environment but also address efficiency and social justice issues.

### Units

0.50

### Exceptions to Fees or Academic Progress

#### Units

No

### Components

Lecture Tutorial

### Primary Component

Lecture

## Grading Information

### Standard Course Grading

Yes

## 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**

**Corequisites**

**Antirequisites**

## Course Notes

## Workflow Information

**Workflow Path**

Committee approvals

**Faculty/AFIW Path(s) for Workflow**

Faculty of Environment

## Dependencies

**Course Lists**

- H-Environment & Business - Environment and Business (Bachelor of Environmental Studies - Honours) [View Program](#)

**Course Requirements (units)**

- ENBUS-Sustainable Finance Specialization - Sustainable Finance Specialization
- SFM-Government Policy & Financial Markets Specialization - Government Policy and Financial Markets Specialization [View Program](#)

**Course Requirements (no units)**

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

# ENBUS 410 - Managing Competing Interests in Practice

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## Effective Date & Career

**Career**

Undergraduate

**Effective Term and Year**

Proposed
<b>Effective Term and Year</b> Fall 2027
Existing
<b>Effective Term and Year</b> Fall 2024

**Quest Course ID**

12906

**Offering Number**

1

## Proposal Details

**Proposal Type**

Change

**Academic Unit Approval**

2026-02-06

**Unit Weight/Number Changes**

No

### Rationale for Change

The course instructor has proposed the following changes to the course title and description to better suit the course material.

Related agenda proposals: N/A

### Consultations

SEED and SFM consulted.

## Course Information

### Faculty

Faculty of Environment

### Academic Unit

School of Environment, Enterprise and Development

### Subject Code

ENBUS

### Number

410

### Course Level

400

### Title

Proposed

#### Title

Managing Competing Interests in Practice

Existing

#### Title

Engaging Stakeholders

### Abbreviated Title

Proposed

#### Abbreviated Title

Managing Competing Interests

### Undergraduate Communication Requirement Identifier

No

Existing

**Abbreviated Title**  
Engaging Stakeholders

## Description

Proposed

### Description

Organizations across the public, private, and non-profit sectors increasingly operate in environments with competing interests. Drawing on real-world cases, applied frameworks, and negotiation simulations, students develop practical skills in relationship management, stakeholder and rightsholder engagement, and strategic decision-making to support effective and legitimate decision-making.

Existing

### Description

Business practices need to reflect responsibility not just to shareholders, customers and staff, but also towards the local community. This course discusses what this means for management, and the strategies and practices that are needed to express this responsibility successfully.

### Units

0.50

### Exceptions to Fees or Academic Progress Units

No

### Components

Lecture

### Primary Component

Lecture

## Grading Information

### Standard Course Grading

Yes

## Cross-Listing Information

### Is this course cross-listed?

No

## Repeatable Courses

### Can this course be repeated for credit?

No

## Enrolment Rules

### Consent to Add

No consent required

### Consent to Drop

No consent required

### Prerequisites

- **Enrolled in:**
  - **H-Accounting & Financial Management - Accounting and Financial Management (Bachelor of Accounting and Financial Management - Honours)**
  - **H-Environment & Business - Environment and Business (Bachelor of Environmental Studies - Honours)**
  - **H-Sustainability & Financial Management - Sustainability and Financial Management (Bachelor of Sustainability and Financial Management - Honours)**

### Corequisites

### Antirequisites

## Course Notes

## Workflow Information

### Workflow Path

Committee approvals

### Faculty/AFIW Path(s) for Workflow

## Dependencies

### Course Lists

- H-Environment & Business - Environment and Business (Bachelor of Environmental Studies - Honours) [View Program](#)

### Course Requirements (units)

- ENBUS-Sustainable Finance Specialization - Sustainable Finance Specialization [View Program](#)
- SFM-Government Policy & Financial Markets Specialization - Government Policy and Financial Markets Specialization [View Program](#)

### Course Requirements (no units)

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

# ENVS 195 - Introduction to Environmental Studies

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## Effective Date & Career

### Career

Undergraduate

### Effective Term and Year

Proposed

Effective Term and Year

Fall 2027

Existing

Effective Term and Year

Fall 2023

### Quest Course ID

5262

### Offering Number

1

## Proposal Details

### Proposal Type

Change

### Unit Weight/Number Changes

No

### Rationale for Change

As of Fall 2025 ENV5195 is core for all first year ENV students, who all take the course 1A (Fall term). As a result, this course is now taught in two sections with a combined capacity of over 600 students. Both sections are taught by the same instructor, who has asked to offer a combined test time for the mid-term exam which requires a TST component.

Related agenda proposals: N/A

### Consultations

None required.

## Course Information

### Faculty

Faculty of Environment

### Academic Unit

Dean of Environment Office

### Subject Code

ENVS

### Number

195

### Course Level

100

### Title

Introduction to Environmental Studies

**Abbreviated Title**  
Intro Environmental Studies

**Undergraduate Communication Requirement Identifier**  
No

**Description**

This course introduces the field of environmental studies through an exploration of environmental issues that contribute to crises and challenges at the global, national and local levels. The course provides an overview of human ecological aspects of environmental studies from an inter-cultural and global perspective, and offers an integrative framework for understanding them.

**Units**  
0.50

**Exceptions to Fees or Academic Progress Units**  
No

**Components**

Proposed  
Components  
Test Slot  
Existing  
Components

**Primary Component**  
Lecture

**Grading Information**

**Standard Course Grading**  
Yes

**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**

**Corequisites**

**Antirequisites**

- **Not completed nor concurrently enrolled in any of the following:**
  - **EARTH122 - Introductory Environmental Sciences (0.50)**

## Course Notes

## Workflow Information

**Workflow Path**

Committee approvals

**Faculty/AFIW Path(s) for Workflow**

Faculty of Environment

## Dependencies

**Antirequisites**

- EARTH 122 - Introductory Environmental Sciences

[View Program](#)

### **Prerequisites**

- SFM 328 - Sustainability Integration Consulting Group - Junior Strategist [View Program](#)
- GEOG 233 - Geography of Tourism [View Program](#)

### **Course Requirements (no units)**

- Earth Sciences Minor - Earth Sciences Minor [View Program](#)
- H-Environment, Resources & Sustainability - Environment, Resources and Sustainability (Bachelor of Environmental Studies - Honours) [View Program](#)
- JH-Environment, Resources & Sustainability - Environment, Resources and Sustainability (Joint Honours) [View Program](#)

### **Course Lists**

- Degree Reqs: BASc - Bachelor of Applied Science Degree Requirements [View Program](#)

### **Course Requirements (units)**

- H-Geography & Environmental Management - Geography and Environmental Management (Bachelor of Environmental Studies - Honours) [View Program](#)
- 3G-Geography & Environmental Management - Geography and Environmental Management (Bachelor of Environmental Studies - Three-Year General) [View Program](#)

### **Course Requirements (no units)**

- H-Geospatial Data Science - Geospatial Data Science (Bachelor of Environmental Studies - Honours) [View Program](#)

### **Course Requirements (units)**

- H-Environment & Business - Environment and Business (Bachelor of Environmental Studies - Honours) [View Program](#)
- H-Sustainability & Financial Management - Sustainability and Financial Management (Bachelor of Sustainability and Financial Management - Honours) [View Program](#)
- Urban Studies Minor - Urban Studies Minor [View Program](#)
- H-Planning - Planning (Bachelor of Environmental Studies - Honours) [View Program](#)
- H-International Development - International Development (Bachelor of Environmental Studies - Honours) [View Program](#)
- H-Geography & Aviation - Geography and Aviation (Bachelor of Environmental Studies - Honours) [View Program](#)

### **Course Requirements (no units)**

- H-Knowledge Integration - Knowledge Integration (Bachelor of Knowledge Integration - Honours) [View Program](#)

### **Course Requirements (units)**

- H-Climate & Environmental Change - Climate and Environmental Change (Bachelor of Science - Honours) [View Program](#)

### **Course Requirements (no units)**

- JH-Geography & Environmental Management - Geography and Environmental Management (Joint Honours) [View Program](#)

**Course Requirements (units)**

- Future Cities Diploma - Diploma in Future Cities

[View Program](#)

**Course Requirements (no units)**

- Sustainability Specialization - Sustainability Specialization

[View Program](#)

# ERS 316 - Urban Water and Wastewater Systems: Integrated Planning and Management

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## Effective Date & Career

**Career**

Undergraduate

**Effective Term and Year**

Proposed

**Effective Term and Year**

Fall 2027

Existing

**Effective Term and Year**

Fall 2023

**Quest Course ID**

11666

**Offering Number**

1

## Proposal Details

**Proposal Type**

Change

**Unit Weight/Number Changes**

No

### Rationale for Change

Changing the components to align with how this course has been scheduled and taught over the last few offerings.

Related agenda proposals: N/A

### Consultations

None required

## Course Information

### Faculty

Faculty of Environment

### Academic Unit

School of Environment, Resources and Sustainability

### Subject Code

ERS

### Number

316

### Course Level

300

### Title

Urban Water and Wastewater Systems: Integrated Planning and Management

### Abbreviated Title

Urban Water & Wastewater Sys

### Undergraduate Communication Requirement Identifier

No

### Description

Focus on urban water management in North America, Australia, Western Asia, and the Global South as illustrative systems or cases. Given changing climate conditions, there is increased likelihood of extreme events (e.g., urban flooding and drought) and new water management challenges. Development and maintenance of urban water and wastewater systems, along with demand and supply management planning, efficiency mechanisms, development and equity concerns, will be examined.

### Units

0.50

### Exceptions to Fees or Academic Progress Units

No

## Components

Proposed

Components

Tutorial

Existing

Components

## Primary Component

Proposed

Primary Component

Lecture

Existing

Primary Component

Seminar

## Grading Information

### Standard Course Grading

Yes

## 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

## Corequisites

## Antirequisites

## Course Notes

## Workflow Information

### Workflow Path

Committee approvals

### Faculty/AFIW Path(s) for Workflow

Faculty of Environment

## Dependencies

### Course Lists

- Degree Reqs: BASc - Bachelor of Applied Science Degree Requirements [View Program](#)

### Course Requirements (units)

- GEM-Environment, Society & Well-Being Specialization - Environment, Society and Well-Being Specialization [View Program](#)
- GA-Environment, Society & Well-Being Specialization - Environment, Society and Well-Being Specialization [View Program](#)
- GDS-Environment, Society & Well-Being Specialization - Environment, Society and Well-Being Specialization [View Program](#)
- CEC-Environment, Society & Well-Being Specialization - Environment, Society and Well-Being Specialization [View Program](#)

### Course Lists

- H-Software Engineering - Software Engineering (Bachelor of Software Engineering - Honours) [View Program](#)

### Course Requirements (units)

- Sustainability Diploma - Diploma in Sustainability [View Program](#)
- Urban Studies Minor - Urban Studies Minor [View Program](#)

- H-Environmental Sciences - Water Science Specialization - Environmental Sciences - Water Science Specialization (Bachelor of Science - Honours) [View Program](#)
- KI-Science, Technology, & Society Specialization - Science, Technology, and Society Specialization [View Program](#)

**Course Requirements (no units)**

- PLAN-Environmental Planning Specialization - Environmental Planning Specialization [View Program](#)

# PLAN 262 - Introduction to Global Emerging Cities

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## Effective Date & Career

**Career**

Undergraduate

**Effective Term and Year**

Proposed
<b>Effective Term and Year</b> Fall 2027
Existing
<b>Effective Term and Year</b> Fall 2023

**Quest Course ID**

15434

**Offering Number**

1

## Proposal Details

**Proposal Type**

Change

**Unit Weight/Number Changes**

No

### Rationale for Change

INDEV262 is being retired, and therefore needs to be removed as a cross-list to PLAN262.

Related agenda proposals:

- INDEV262

### Consultations

Planning has been advised.

## Course Information

#### Faculty

Faculty of Environment

#### Academic Unit

School of Planning

#### Subject Code

PLAN

#### Number

262

#### Course Level

200

#### Title

Introduction to Global Emerging Cities

#### Abbreviated Title

Intro Global Emerging Cities

#### Undergraduate Communication Requirement Identifier

No

#### Description

This course focuses on the dynamics of growth and change in global emerging cities, with a focus on the urban transition underway in cities, with emphasis on Asia and Africa. Current urban challenges (e.g. social inequality, uneven development, climate change) are discussed, as well as opportunities for innovative planning and sustainable urban development.

#### Units

#### Exceptions to Fees or Academic Progress Units

0.50

No

**Components**

Lecture

**Primary Component**

Lecture

## Grading Information

**Standard Course Grading**

Yes

## Cross-Listing Information

**Is this course cross-listed?**

Proposed

**Is this course cross-listed?**

No

Existing

**Is this course cross-listed?**

Yes

**Cross-Listed Courses**

Proposed

**Cross-Listed Courses**

Existing

**Cross-Listed Courses**

[INDEV 262](#) - Introduction to Global Emerging Cities

## 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

### Corequisites

### Antirequisites

- **Not completed any of the following: INDEV262**

## Course Notes

## Workflow Information

### Workflow Path

Committee approvals

### Faculty/AFIW Path(s) for Workflow

Faculty of Environment

## Dependencies

### Course Lists

- Degree Reqs: BAsc - Bachelor of Applied Science Degree Requirements

[View Program](#)

### Course Requirements (units)

- Urban Studies Minor - Urban Studies Minor

[View Program](#)

- KI-Science, Technology, & Society Specialization - Science, Technology, and Society Specialization

[View Program](#)

# Environmental Assessment Diploma - Diploma in Environmental Assessment

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## Effective Date and Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

## Proposal Details

### Proposal Type

Change

### Quality Assurance Designation

Minor Modification Qad

### Is there an impact to existing students?

No

### Is the credential name changing?

No

**Co-operative System of Study and Requirements**

Not Applicable

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

We have been informed by the Earth Science Department that EARTH358 is being retired effective 2027. GEOG391 is also being retired. Therefore we are removing these courses from the approved course lists 1 and 4, respectively.

Related agenda proposal:

- GEOG391

**Consultations (Departmental)**

Earth Science Department informed us of retiring EARTH358.

**General Program/Plan Information**

**Faculty**

Faculty of Environment

**Academic Unit**

Dean of Environment Office

**Field of Study**

Environmental Assessment

**Faculty**

Faculty of Environment

**Undergraduate Credential Type**

Diploma

**Program/Plan Name**

Diploma in Environmental Assessment

## Admissions

**Admissions Entry Point**

Both

**Declaration Audience**

This credential is open to students enrolled in degree programs or any non- or post-degree academic plan.

# Requirements Information

## Invalid Combinations

No

## Average Requirement

Yes

## Minimum Average(s) Required

- A minimum cumulative diploma average of 65.0%.

## Graduation Requirements

- Complete a total of 2.5 to 3.5 units:
  - Complete 1.5 units of required courses.
  - Complete 1.0 to 2.0 units of approved courses.

## Course Requirements (units)

Required Courses

- 0 Units to Complete
- No Rules

## Course Requirements (no units)

Required Courses

- Complete all the following:
  - ERS215 - Environmental and Sustainability Assessment 1 (0.50)
  - ERS315 - Environmental and Sustainability Assessment 2 (0.50)
  - ERS415 - Environmental and Sustainability Assessment 3 (0.50)

## Course Lists

1. Approved Courses List

- **Complete 2 courses: 1 course from two of the following lists. List 1 Choose any of the following: BIOL351 - Aquatic Ecology (0.50) BIOL354 - Environmental**

**Toxicology (0.50)BIOL383 - Tropical Ecosystems (0.50)BIOL447 - Environmental Microbiology (0.50)BIOL462 - Applied Wetland Science (0.50)EARTH342 - Geomorphology and GIS Applications (0.50)EARTH444 - Applied Wetland Science (0.50)EARTH458 - Physical Hydrogeology (0.50)ERS383 - Tropical Ecosystems (0.50)GEOG402 - Applied Wetland Science (0.50)HLTH340 - Environmental Toxicology and Public Health (0.50)List 2Choose any of the following:BIOL470 - Methods of Aquatic Ecology (0.50)EARTH456 - Numerical Methods in Hydrogeology (0.50)ENBUS308 - Sustainability Management Standards and Auditing (0.50)ENVE573 - Contaminant Transport (0.50)ENVS278 - Applied Statistics for Environmental Research (0.50)ENVS444 - Ecosystem and Resource Management in Parks/Natural Areas (0.50)ERS375 - Special Readings/Seminar on Select Topics (0.50)ERS382 - Ecological Monitoring (1.00)GDS281 - Introduction to Geographic Information Systems (GIS) (0.50)GEOG319 - Economic Analyses for Regional Planning (0.50)LS373 - Indigenous Peoples and Canadian Public Policy (0.50)PLAN281 - Introduction to Geographic Information Systems (GIS) (0.50)PLAN320 - Economic Analyses for Regional Planning (0.50)SDS311R - Indigenous Peoples and Canadian Public Policy (0.50)List 3Choose any of the following:BIOL455 - Ecological Risk Assessment and Management (0.50)CIVE230 - Engineering and Sustainable Development (0.50)ECON255 - Introduction to Environmental and Natural Resource Economics (0.50)ENVE391 - Law and Ethics for Environmental and Geological Engineers (0.50)ENVS201 - Introduction to Canadian Environmental Law (0.50)ENVS220 - Ecological Economics (0.50)ERS335 - Restoration Ecology (0.50)ERS372 - First Nations and the Environment (0.50)GEOE391 - Law and Ethics for Environmental and Geological Engineers (0.50)GEOG356 - Natural Resources Management (0.50)LS271 - Conflict Resolution (0.50)LS319 - Negotiation: Theories and Strategies (0.50)PACS202 - Conflict Resolution (0.50)PACS313 - Community Conflict Resolution (0.50)PACS323 - Negotiation: Theories and Strategies (0.50)PLAN471 - Planning and Municipal Law (0.50)List 4Choose any of the following:ENVE577 - Engineering for Solid Waste Management (0.50)ENVS401 - Canadian Law, Indigenous Peoples, and Natural Resource Development (0.50)ENVS459 - Energy, Governance, and Sustainability (0.50)ERS221 - Oceans Sustainability (0.50)ERS317 - Waste Management (0.50)ERS361 - Food Systems and Sustainability (0.50)ERS404 - Global Environmental Governance (0.50)ERS456 - Transforming Canadian Resource Management (1.00)ERS462 - Global Food and Agricultural Politics (0.50)ERS484 - Soil Ecosystem Dynamics (0.50)GEOG361 - Food Systems and Sustainability (0.50)GEOG368 - Ecology and Conservation for Planning (0.50)GEOG404 - Soil Ecosystem Dynamics (0.50)GEOG407 - Environmental Hydrology of Terrestrial Ecosystems (0.50)GEOG432 - Health and the Built Environment (0.50)GEOG456 - Transforming Canadian Resource Management (1.00)GEOG462 - Global Food and Agricultural Politics (0.50)HLTH420 - Health and the Built Environment (0.50)PLAN240 - Environmental Planning and Policy (0.50)PLAN341 - Ecology and Conservation for Planning (0.50)PLAN432 - Health and the Built Environment (0.50)PLAN440 - Urban Services (0.50)PSCI432 - Global Environmental Governance (0.50)PSCI488 - Global Food and Agricultural Politics (0.50)**

- Complete 2 courses: 1 course from two of the following lists.List 1Choose any of the following:BIOL351 - Aquatic Ecology (0.50)BIOL354 - Environmental Toxicology (0.50)BIOL383 - Tropical Ecosystems (0.50)BIOL447 - Environmental Microbiology (0.50)BIOL462 - Applied Wetland Science (0.50)EARTH342 - Geomorphology and GIS Applications (0.50)EARTH358 - Earth System Science (0.50)EARTH444 - Applied Wetland Science (0.50)EARTH458 - Physical Hydrogeology (0.50)ERS383 - Tropical Ecosystems (0.50)GEOG402 - Applied Wetland Science (0.50)HLTH340 - Environmental Toxicology and Public Health (0.50)List 2Choose any of the following:BIOL470 - Methods of Aquatic Ecology (0.50)EARTH456 - Numerical Methods in Hydrogeology (0.50)ENBUS308 - Sustainability Management Standards and Auditing (0.50)ENVE573 - Contaminant Transport (0.50)ENVS278 - Applied Statistics for Environmental Research (0.50)ENVS444 - Ecosystem and Resource Management in Parks/Natural Areas (0.50)ERS375 - Special Readings/Seminar on Select Topics (0.50)ERS382 - Ecological Monitoring (1.00)GDS281 - Introduction to Geographic Information Systems (GIS) (0.50)GEOG319 - Economic Analyses for Regional Planning (0.50)LS373 - Indigenous Peoples and Canadian Public Policy (0.50)PLAN281 - Introduction to Geographic Information Systems (GIS) (0.50)PLAN320 - Economic Analyses for Regional Planning (0.50)SDS311R - Indigenous Peoples and Canadian Public Policy (0.50)List 3Choose any of the following:BIOL455 -

Ecological Risk Assessment and Management (0.50)CIVE230 – Engineering and Sustainable Development (0.50)ECON255 – Introduction to Environmental and Natural Resource Economics (0.50)ENVE391 – Law and Ethics for Environmental and Geological Engineers (0.50)ENVS201 – Introduction to Canadian Environmental Law (0.50)ENVS220 – Ecological Economics (0.50)ERS335 – Restoration Ecology (0.50)ERS372 – First Nations and the Environment (0.50)GEOE391 – Law and Ethics for Environmental and Geological Engineers (0.50)GEOG356 – Natural Resources Management (0.50)LS271 – Conflict Resolution (0.50)LS319 – Negotiation: Theories and Strategies (0.50)PACS202 – Conflict Resolution (0.50)PACS313 – Community Conflict Resolution (0.50)PACS323 – Negotiation: Theories and Strategies (0.50)PLAN471 – Planning and Municipal Law (0.50)List 4 Choose any of the following: ENVE577 – Engineering for Solid Waste Management (0.50)ENVS401 – Canadian Law, Indigenous Peoples, and Natural Resource Development (0.50)ENVS459 – Energy, Governance, and Sustainability (0.50)ERS221 – Oceans Sustainability (0.50)ERS317 – Waste Management (0.50)ERS361 – Food Systems and Sustainability (0.50)ERS404 – Global Environmental Governance (0.50)ERS456 – Transforming Canadian Resource Management (1.00)ERS462 – Global Food and Agricultural Politics (0.50)ERS484 – Soil Ecosystem Dynamics (0.50)GEOG361 – Food Systems and Sustainability (0.50)GEOG368 – Ecology and Conservation for Planning (0.50)GEOG391 – Field Research (0.50)GEOG404 – Soil Ecosystem Dynamics (0.50)GEOG407 – Environmental Hydrology of Terrestrial Ecosystems (0.50)GEOG432 – Health and the Built Environment (0.50)GEOG456 – Transforming Canadian Resource Management (1.00)GEOG462 – Global Food and Agricultural Politics (0.50)HLTH420 – Health and the Built Environment (0.50)PLAN240 – Environmental Planning and Policy (0.50)PLAN341 – Ecology and Conservation for Planning (0.50)PLAN432 – Health and the Built Environment (0.50)PLAN440 – Urban Services (0.50)PSCI432 – Global Environmental Governance (0.50)PSCI488 – Global Food and Agricultural Politics (0.50)

**Are there cross-listed courses listed in requirements?**

Yes

**Cross-Listings Options**

All cross-listings to be displayed

### Notes

- See list of [academic advisors](#).

## Specializations

## Undergraduate Plan Guidelines

### Adherence to Academic Plan Guidelines

Yes

## Workflow Information

### Workflow Path

Committee approvals

### Faculty/AFIW Path(s) for Workflow

Faculty of Environment

## Dependencies

There are no dependencies

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**H-Environment, Resources & Sustainability -  
Environment, Resources and Sustainability**

# (Bachelor of Environmental Studies - Honours)

## Effective Date and Career

**Career**

Undergraduate

**Effective Term and Year**

Proposed

**Effective Term and Year**

Fall 2027

Existing

**Effective Term and Year**

Fall 2026

## Proposal Details

**Proposal Type**

Change

**Academic Unit Approval**

2026-03-02

**Quality Assurance Designation**

Minor Modification Qad

**Is there an impact to existing students?**

No

**Is the credential name changing?**

No

**Co-operative System of Study and Requirements**

No

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

Yes

**Learning Outcomes Change Details**

This does not change our learning outcomes but rather strengthens our commitment to applied, skills-based learning around data management and statistics related to resources and sustainability.

**Rationale and Background for Change(s)**

SERS identified a need to have our undergraduate students obtain enhanced quantitative skills in data management and statistics, and as the only program in the Faculty of Environment currently not taking ENV5278 (with the exception of KI students), this was the logical outcome.

Related agenda proposals: N/A

**Consultations (Departmental)**

The change was discussed with the School (SERS) in Fall 2025 and Winter 2026, along with parallel conversations with the Director (Armitage) and Associate Directors (Collins/Trant). At the February School meeting, there was unanimous support for this change. Discussions were also had with Carol Knipe and Johanna Wandel, to ensure teaching capacity.

**General Program/Plan Information**

**Faculty**

Faculty of Environment

**Academic Unit**

School of Environment, Resources and Sustainability

**Field of Study**

Environment, Resources and Sustainability

**Faculty**

Faculty of Environment

**Undergraduate Credential Type**  
Major

**Program Type**  
Honours

**Degree**  
Bachelor of Environmental Studies

**Program/Plan Name**

Environment, Resources and Sustainability (Bachelor of Environmental Studies - Honours)

**Systems of Study**

Co-operative, Regular

## Admissions

**Admissions Entry Point**

Direct Entry

## Requirements Information

## Invalid Combinations

Yes

## List of Invalid Combinations

Diploma in Sustainability

## Average Requirement

Yes

## Minimum Average(s) Required

- A minimum cumulative overall average of 65.0%.
- A minimum cumulative major average of 70.0% in all ERS and ENVS courses.

## Graduation Requirements

- See [Bachelor of Environmental Studies degree-level requirements](#).
- Complete a total of 20.0 units:
  - 11.0 units of required courses.
  - 9.0 units of elective courses.

## Co-operative Education Program Requirements

For students in the co-operative system of study, see [Bachelor of Environmental Studies co-operative education program requirements](#).

## Course Requirements (units)

Required Courses

- 0 Units to Complete
- No Rules

## Course Requirements (no units)

### 1. Required Courses

- Complete all of the followingComplete all the following:
- ENVS131 - Communications for Environmental Professions (0.50)
- ENVS178 - Environmental Applications of Data Management and Statistics (0.50)
- ENVS195 - Introduction to Environmental Studies (0.50)
- ENVS200 - Field Ecology (0.50)
- ERS101 - Approaches: Environment, Resources and Sustainability (0.50)
- ERS102 - At Home in the Universe (0.50)
- ERS201 - Environmental Policy, Politics and Governance (0.50)
- ERS202 - Natural Resources Ecology (0.50)
- ERS215 - Environmental and Sustainability Assessment 1 (0.50)
- ERS300 - Social Ecological Systems Analysis (0.50)
- ERS301 - Sustainability Thought, Practice and Prospects (0.50)

- ERS302 - Research Methods and Design (0.50)
- ERS400 - Social-Ecological Approaches to Sustainability (0.50)
- **ENVS278 - Applied Statistics for Environmental Research (0.50)**
- Complete 1 of the following
- Complete all of the following
- Complete all the following:
  - ERS402 - Senior Honours Research Seminar (0.50)
  - Complete 1 additional ERS course at the 300- level or above
  - Complete all the following:
    - ERS403A - Senior Honours Thesis (0.50)
    - ERS403B - Senior Honours Thesis (0.50)
- **Complete 2.0 units of additional ERS courses, of which at least 0.5 unit must be at the 300- level or above****Complete 1.0 unit of additional ENVS and/or ERS courses**
- ~~Complete 2.5 units of additional ERS courses, of which at least 0.5 unit must be at the 300- level or above~~~~Complete 1.0 unit of additional ENVS and/or ERS courses~~

### Course Lists

#### Required Courses

- No Rules

#### Are there cross-listed courses listed in requirements?

No

#### Additional Constraints

1. If a minimum grade of 60.0% is achieved in ENVS131, the Undergraduate Communication Requirement (UCR) milestone will be granted. If the minimum grade is not met, see [Bachelor of Environmental Studies degree-level requirements](#) and contact the Environment, Resources and Sustainability academic advisor.

### Notes

- See list of [academic advisors](#).
- See Environment, Resources and Sustainability website for [recommended course sequences](#).
- For further information, visit the [Environment, Resources and Sustainability website](#).

## Specializations

### Specializations for this Major

No

## Undergraduate Plan Guidelines

## Workflow Information

### Change to Undergraduate Communication Requirement

No

### Workflow Path

Committee approvals

### Faculty/AFIW Path(s) for Workflow

Faculty of Environment

## Dependencies

### Prerequisites

- BIOL 359 - Evolution 1: Mechanisms [View Program](#)
- ERS 301 - Sustainability Thought, Practice and Prospects [View Program](#)
- ERS 400 - Social-Ecological Approaches to Sustainability [View Program](#)
- ERS 402 - Senior Honours Research Seminar [View Program](#)
- ERS 403A - Senior Honours Thesis [View Program](#)
- ERS 403B - Senior Honours Thesis [View Program](#)
- ERS 101 - Approaches: Environment, Resources and Sustainability [View Program](#)
- ERS 300 - Social Ecological Systems Analysis [View Program](#)

# CEC-Environment, Society & Well-Being Specialization - Environment, Society and Well-Being Specialization

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## Effective Date and Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

## Proposal Details

### Proposal Type

Change

### Quality Assurance Designation

**Is there an impact to existing students?**

Yes

**Impact on Existing Students**

Students who added this specialization with the requirement term of 2026 will be allowed to change the requirement term to 2027, to include the courses that are being added.

**Is the credential name changing?**

No

**Co-operative System of Study and Requirements**

Not Applicable

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

The addition of GEOG/PLAN441 and GEOG/PLAN445 to this specialization was missed on the submission effective 2026.

Related agenda proposals:

- GDS-Environment, Society & Well-Being Specialization
- GEM-Environment, Society & Well-Being Specialization
- GA-Environment, Society & Well-Being Specialization

**Consultations (Departmental)**

Planning was consulted.

**General Program/Plan Information**

**Faculty**

Faculty of Environment

**Academic Unit**

Department of Geography and Environmental Management

**Field of Study**

Climate and Environmental Change

**Faculty**

Faculty of Environment

**Undergraduate Credential Type**

Specialization

**Program/Plan Name**

Environment, Society and Well-Being Specialization

**Admissions**

## Specialization is available for students in the following majors

H-Climate & Environmental Change

### Admissions Entry Point

Declare Plan

### Declaration Requirements

- It is recommended that students declare the addition of a specialization as early as possible by submitting a [Plan Modification Form](#).

## Requirements Information

### Invalid Combinations

No

### Average Requirement

No

### Graduation Requirements

- Complete a total of 2.5 units.
  - 1.0 unit must be at the 400-level.

### Course Requirements (units)

#### 1. Required Courses

- 2.5Units to CompleteComplete 5 of the following:

- ERS316 - Urban Water and Wastewater Systems: Integrated Planning and Management (0.50)
- ERS361 - Food Systems and Sustainability (0.50)
- ERS365 - Water Governance (0.50)
- ERS460 - Sustainable Food: Localizing Food Systems (0.50)
- ERS462 - Global Food and Agricultural Politics (0.50)
- GEOG306 - Human Dimensions of Natural Hazards (0.50)
- GEOG325 - Geographies of Health (0.50)
- GEOG351 - Transportation, Mobility, and Sustainability (0.50)
- GEOG361 - Food Systems and Sustainability (0.50)
- GEOG432 - Health and the Built Environment (0.50)
- **GEOG441 - Disability and Accessibility in the City (0.50)**
- **GEOG445 - Gender and Queer Inclusive Environments (0.50)**
- GEOG460 - Sustainable Food: Localizing Food Systems (0.50)
- GEOG462 - Global Food and Agricultural Politics (0.50)
- HLTH370 - Ecological Determinants of Health (0.50)
- HLTH420 - Health and the Built Environment (0.50)
- PLAN380 - Crime and the City (0.50)
- PLAN432 - Health and the Built Environment (0.50)
- **PLAN441 - Disability and Accessibility in the City (0.50)**
- **PLAN445 - Gender and Queer Inclusive Environments (0.50)**
- PSCI488 - Global Food and Agricultural Politics (0.50)
- Grand Total Units: 2.5

**Course Requirements (no units)**

Required Courses

- No Rules

**Course Lists**

Required Courses

- No Rules

**Are there cross-listed courses listed in requirements?**

Yes

**Cross-Listings Options**

All cross-listings to be displayed

**Additional Constraints**

1. Students may only complete one course from any cross-listed set.

## Specializations

## Undergraduate Plan Guidelines

## Workflow Information

**Workflow Path**  
Committee approvals

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

## Dependencies

### Specializations List

- H-Climate & Environmental Change - Climate and Environmental Change (Bachelor of Science - Honours) [View Program](#)

# GA-Environment, Society & Well-Being Specialization - Environment, Society and Well-Being Specialization

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## Effective Date and Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

## Proposal Details

### Proposal Type

Change

### Quality Assurance Designation

Minor Modification Qad

**Is there an impact to existing students?**

Yes

**Impact on Existing Students**

Students who added this specialization with the requirement term of 2026 will be allowed to change the requirement term to 2027, to include the courses that are being added.

**Is the credential name changing?**

No

**Co-operative System of Study and Requirements**

Not Applicable

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

The addition of GEOG/PLAN441 and GEOG/PLAN445 to this specialization was missed on the submission effective 2026.

Related agenda proposals:

- CEC-Environment, Society & Well-Being Specialization
- GDS-Environment, Society & Well-Being Specialization
- GEM-Environment, Society & Well-Being Specialization

### **Consultations (Departmental)**

Planning was consulted.

## **General Program/Plan Information**

### **Faculty**

Faculty of Environment

### **Academic Unit**

Department of Geography and Environmental Management

### **Field of Study**

Geography and Aviation

### **Faculty**

Faculty of Environment

### **Undergraduate Credential Type**

Specialization

### **Program/Plan Name**

Environment, Society and Well-Being Specialization

## **Admissions**

## Specialization is available for students in the following majors

H-Geography & Aviation

### Admissions Entry Point

Declare Plan

### Declaration Requirements

- It is recommended that students declare the addition of a specialization as early as possible by submitting a [Plan Modification Form](#).

## Requirements Information

### Invalid Combinations

No

### Average Requirement

No

### Graduation Requirements

- Complete a total of 2.5 units.
  - 1.0 unit must be at the 400-level.

### Course Requirements (units)

#### 1. Required Courses

- 2.5Units to CompleteComplete 5 of the following:
- ERS316 - Urban Water and Wastewater Systems: Integrated Planning and Management (0.50)

- ERS361 - Food Systems and Sustainability (0.50)
- ERS365 - Water Governance (0.50)
- ERS460 - Sustainable Food: Localizing Food Systems (0.50)
- ERS462 - Global Food and Agricultural Politics (0.50)
- GEOG306 - Human Dimensions of Natural Hazards (0.50)
- GEOG325 - Geographies of Health (0.50)
- GEOG351 - Transportation, Mobility, and Sustainability (0.50)
- GEOG361 - Food Systems and Sustainability (0.50)
- GEOG432 - Health and the Built Environment (0.50)
- **GEOG441 - Disability and Accessibility in the City (0.50)**
- **GEOG445 - Gender and Queer Inclusive Environments (0.50)**
- GEOG460 - Sustainable Food: Localizing Food Systems (0.50)
- GEOG462 - Global Food and Agricultural Politics (0.50)
- HLTH370 - Ecological Determinants of Health (0.50)
- HLTH420 - Health and the Built Environment (0.50)
- PLAN380 - Crime and the City (0.50)
- PLAN432 - Health and the Built Environment (0.50)
- **PLAN441 - Disability and Accessibility in the City (0.50)**
- **PLAN445 - Gender and Queer Inclusive Environments (0.50)**
- PSCI488 - Global Food and Agricultural Politics (0.50)
- Grand Total Units: 2.5

**Course Requirements (no units)**

Required Courses

- No Rules

**Course Lists**

Required Courses

- No Rules

**Are there cross-listed courses listed in requirements?**

Yes

**Cross-Listings Options**

All cross-listings to be displayed

**Additional Constraints**

1. Students may only complete one course from any cross-listed set.

## Specializations

## Undergraduate Plan Guidelines

## Workflow Information

**Workflow Path**  
Committee approvals

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

## Dependencies

### Specializations List

- H-Geography & Aviation - Geography and Aviation (Bachelor of Environmental Studies - Honours) [View Program](#)

# GDS-Environment, Society & Well-Being Specialization - Environment, Society and Well-Being Specialization

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## Effective Date and Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

## Proposal Details

### Proposal Type

Change

### Quality Assurance Designation

Minor Modification Qad

**Is there an impact to existing students?**

Yes

**Impact on Existing Students**

Students who added this specialization with the requirement term of 2026 will be allowed to change the requirement term to 2027, to include the courses that are being added.

**Is the credential name changing?**

No

**Co-operative System of Study and Requirements**

Not Applicable

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

The addition of GEOG/PLAN441 and GEOG/PLAN445 to this specialization was missed on the submission effective 2026.

Related agenda proposals:

- CEC-Environment, Society & Well-Being Specialization
- GA-Environment, Society & Well-Being Specialization
- GEM-Environment, Society & Well-Being Specialization

### Consultations (Departmental)

Planning was consulted.

## General Program/Plan Information

### Faculty

Faculty of Environment

### Academic Unit

Department of Geography and Environmental Management

### Field of Study

Geospatial Data Science

### Faculty

Faculty of Environment

### Undergraduate Credential Type

Specialization

### Program/Plan Name

Environment, Society and Well-Being Specialization

## Admissions

## Specialization is available for students in the following majors

H-Geospatial Data Science

### Admissions Entry Point

Declare Plan

### Declaration Requirements

- It is recommended that students declare the addition of a specialization as early as possible by submitting a [Plan Modification Form](#).

## Requirements Information

### Invalid Combinations

No

### Average Requirement

No

### Graduation Requirements

- Complete a total of 2.5 units.
  - 1.0 unit must be at the 400-level.

### Course Requirements (units)

#### 1. Required Courses

- 2.5Units to CompleteComplete 5 of the following:
- ERS316 - Urban Water and Wastewater Systems: Integrated Planning and Management (0.50)

- ERS361 - Food Systems and Sustainability (0.50)
- ERS365 - Water Governance (0.50)
- ERS460 - Sustainable Food: Localizing Food Systems (0.50)
- ERS462 - Global Food and Agricultural Politics (0.50)
- GEOG306 - Human Dimensions of Natural Hazards (0.50)
- GEOG325 - Geographies of Health (0.50)
- GEOG351 - Transportation, Mobility, and Sustainability (0.50)
- GEOG361 - Food Systems and Sustainability (0.50)
- GEOG432 - Health and the Built Environment (0.50)
- **GEOG441 - Disability and Accessibility in the City (0.50)**
- **GEOG445 - Gender and Queer Inclusive Environments (0.50)**
- GEOG460 - Sustainable Food: Localizing Food Systems (0.50)
- GEOG462 - Global Food and Agricultural Politics (0.50)
- HLTH370 - Ecological Determinants of Health (0.50)
- HLTH420 - Health and the Built Environment (0.50)
- PLAN380 - Crime and the City (0.50)
- PLAN432 - Health and the Built Environment (0.50)
- **PLAN441 - Disability and Accessibility in the City (0.50)**
- **PLAN445 - Gender and Queer Inclusive Environments (0.50)**
- PSCI488 - Global Food and Agricultural Politics (0.50)
- Grand Total Units: 2.5

### **Course Requirements (no units)**

Required Courses

- No Rules

### **Course Lists**

Required Courses

- No Rules

**Are there cross-listed courses listed in requirements?**

Yes

### **Cross-Listings Options**

All cross-listings to be displayed

### **Additional Constraints**

1. Students may only complete one course from any cross-listed set.

## Specializations

## Undergraduate Plan Guidelines

## Workflow Information

**Workflow Path**  
Committee approvals

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

## Dependencies

### Specializations List

- H-Geospatial Data Science - Geospatial Data Science (Bachelor of Environmental Studies - Honours) [View Program](#)

# GEM-Environment, Society & Well-Being Specialization - Environment, Society and Well-Being Specialization

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## Effective Date and Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

## Proposal Details

### Proposal Type

Change

### Quality Assurance Designation

Minor Modification Qad

**Is there an impact to existing students?**

Yes

**Impact on Existing Students**

Students who added this specialization with the requirement term of 2026 will be allowed to change the requirement term to 2027, to include the courses that are being added.

**Is the credential name changing?**

No

**Co-operative System of Study and Requirements**

Not Applicable

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

The addition of GEOG/PLAN441 and GEOG/PLAN445 to this specialization was missed on the submission effective 2026.

Related agenda proposals:

- CEC-Environment, Society & Well-Being Specialization
- GDS-Environment, Society & Well-Being Specialization
- GA-Environment, Society & Well-Being Specialization

### **Consultations (Departmental)**

Planning was consulted.

## **General Program/Plan Information**

### **Faculty**

Faculty of Environment

### **Academic Unit**

Department of Geography and Environmental Management

### **Field of Study**

Geography and Environmental Management

### **Faculty**

Faculty of Environment

### **Undergraduate Credential Type**

Specialization

### **Program/Plan Name**

Environment, Society and Well-Being Specialization

## **Admissions**

## **Specialization is available for students in the following majors**

H-Geography & Environmental Management, or JH-Geography & Environmental Management

### **Admissions Entry Point**

Declare Plan

### **Declaration Requirements**

- It is recommended that students declare the addition of a specialization as early as possible by submitting a [Plan Modification Form](#).

## **Requirements Information**

### **Invalid Combinations**

No

### **Average Requirement**

No

### **Graduation Requirements**

- Complete a total of 2.5 units.
  - 1.0 unit must be at the 400-level.

### **Course Requirements (units)**

#### 1. Required Courses

- 2.5Units to CompleteComplete 5 of the following:
- ERS316 - Urban Water and Wastewater Systems: Integrated Planning and Management (0.50)

- ERS361 - Food Systems and Sustainability (0.50)
- ERS365 - Water Governance (0.50)
- ERS460 - Sustainable Food: Localizing Food Systems (0.50)
- ERS462 - Global Food and Agricultural Politics (0.50)
- GEOG306 - Human Dimensions of Natural Hazards (0.50)
- GEOG325 - Geographies of Health (0.50)
- GEOG351 - Transportation, Mobility, and Sustainability (0.50)
- GEOG361 - Food Systems and Sustainability (0.50)
- GEOG432 - Health and the Built Environment (0.50)
- **GEOG441 - Disability and Accessibility in the City (0.50)**
- **GEOG445 - Gender and Queer Inclusive Environments (0.50)**
- GEOG460 - Sustainable Food: Localizing Food Systems (0.50)
- GEOG462 - Global Food and Agricultural Politics (0.50)
- HLTH370 - Ecological Determinants of Health (0.50)
- HLTH420 - Health and the Built Environment (0.50)
- PLAN380 - Crime and the City (0.50)
- PLAN432 - Health and the Built Environment (0.50)
- **PLAN441 - Disability and Accessibility in the City (0.50)**
- **PLAN445 - Gender and Queer Inclusive Environments (0.50)**
- PSCI488 - Global Food and Agricultural Politics (0.50)
- Grand Total Units: 2.5

### Course Requirements (no units)

#### Required Courses

- No Rules

### Course Lists

#### Required Courses

- No Rules

### Are there cross-listed courses listed in requirements?

Yes

### Cross-Listings Options

All cross-listings to be displayed

### Additional Constraints

1. Students may only complete one course from any cross-listed set.

## Specializations

## Undergraduate Plan Guidelines

## Workflow Information

**Workflow Path**  
Committee approvals

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

## Dependencies

### Specializations List

- H-Geography & Environmental Management - Geography and Environmental Management (Bachelor of Environmental Studies - Honours) [View Program](#)
- JH-Geography & Environmental Management - Geography and Environmental Management (Joint Honours) [View Program](#)

## H-Knowledge Integration - Knowledge Integration (Bachelor of Knowledge Integration - Honours)

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## Effective Date and Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

## Proposal Details

### Proposal Type

Change

### Quality Assurance Designation

Minor Modification Qad

**Is there an impact to existing students?**

No

**Is the credential name changing?**

No

**Co-operative System of Study and Requirements**

Not Applicable

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

Removing GEOG310 from the list of courses for the Natural and Physical Sciences Requirement, as this course is being retired effective September 2027.

Related agenda proposals:

- GEOG310

**General Program/Plan Information**

**Faculty**

Faculty of Environment

**Academic Unit**

**Field of Study**

Knowledge Integration

**Faculty**

Faculty of Environment

**Undergraduate Credential Type**

Major

**Program Type**

Honours

**Degree**

Bachelor of Knowledge Integration

**Program/Plan Name**

Knowledge Integration (Bachelor of Knowledge Integration - Honours)

**Systems of Study**

Regular

## Admissions

**Admissions Entry Point**

Both

## Declaration Requirements

A Bachelor of Knowledge Integration (BKI) degree can be combined with any other University of Waterloo degree plan which academic units in Environment and other faculties have chosen to make available for joint honours. Knowledge Integration may be the primary credential (i.e., Bachelor of Knowledge Integration with "Z" academic plan) or the secondary credential (i.e., Bachelor of "Y" in academic plan "X" with Joint Honours Knowledge Integration).

## Requirements Information

### Invalid Combinations

Yes

### List of Invalid Combinations

Diploma in Knowledge Integration

### Average Requirement

Yes

### Minimum Average(s) Required

- A minimum cumulative overall average of 65.0%.
- A minimum cumulative major average of 70.0% from all the required courses listed below, all INTEG courses, and all courses counted towards the breadth requirements.

## Graduation Requirements

### Unit Requirements

- Complete a total of 20.5 units:
  - Complete 7.5 units of required courses.
  - Complete 8.0 units of elective courses, a maximum of 1.0 LAB unit may be counted.
  - Complete 5.0 units of breadth courses.
- At least 13.5 units must be at the 200-level or above.

### Undergraduate Communications Requirement

Students are required to complete ENVS131 with a final grade of 60.0% or higher to meet the Undergraduate Communication Requirement (UCR). The UCR milestone on a student's academic record will indicate one of the following rules has been met:

1. ENVS131 has been completed with a final grade of 60.0% or higher.
2. The UCR milestone has been earned by the student while enrolled in another University of Waterloo faculty.
3. At time of admission to the Faculty of Environment, a transfer credit from an external accredited post-secondary institution has been granted for ENVS131.

## Notes

1. If a grade of 60.0% or higher is not achieved in ENVS131, a student will be eligible to repeat the course to meet the UCR milestone requirement. See [Faculty of Environment Regulations](#) for information on repeating courses.
2. Earning an UCR milestone and the satisfactory completion of ENVS131 are two unique and distinct degree requirements. Both requirements must be satisfied to be eligible for a Bachelor of Knowledge Integration degree.
3. Students who have not attained the UCR milestone by the end of their 2B term must meet with their academic advisor to discuss the completion of this requirement.

## Course Requirements (units)

### Required Courses

- 0 Units to Complete
- No Rules

## Course Requirements (no units)

### Required Courses

- Complete all of the following
- Complete all the following:
  - COMMST223 - Public Speaking (0.50)
  - ENVS131 - Communications for Environmental Professions (0.50)
  - ENVS195 - Introduction to Environmental Studies (0.50)
  - INTEG120 - The Art and Science of Learning (0.50)
  - INTEG121 - Collaboration, Design Thinking, and Problem Solving (0.50)
  - INTEG230 - The Museum Course: Preparation and Field Trip (0.25)
  - INTEG320 - The Museum Course: Research and Design (0.50)
  - INTEG321 - The Museum Course: Practicum and Presentation (0.75)
  - INTEG340 - Research Design and Methods (0.50)
  - INTEG420A - Senior Honours Project A (0.50)
  - INTEG420B - Senior Honours Project B (1.00)
  - PHIL145 - Critical Thinking (0.50)
- Complete 1 of the following:
  - INTEG220 - Nature of Scientific Knowledge (0.50)
  - PHIL290 - Nature of Scientific Knowledge (0.50)
- Complete 1 of the following:
  - INTEG221 - The Social Nature of Knowledge (0.50)
  - PHIL291 - The Social Nature of Knowledge (0.50)

## Course Lists

### 1. Breadth Courses List

- Complete all of the following Computer Science Requirement
- Complete 1 of the following:
  - CS105 - Introduction to Computer Programming 1 (0.50)

- CS115 - Introduction to Computer Science 1 (0.50)
- CS135 - Designing Functional Programs (0.50)
- CS145 - Designing Functional Programs (Advanced Level) (0.50)
- CS200 - Concepts for Advanced Computer Usage (0.50)
- Conflict Management Requirement
- Complete 1 of the following:
- COMMST432 - Conflict Management (0.50)
- ERS310 - Peace and the Environment (0.50)
- LS271 - Conflict Resolution (0.50)
- LS319 - Negotiation: Theories and Strategies (0.50)
- PACS201 - Roots of Conflict, Violence, and Peace (0.50)
- PACS202 - Conflict Resolution (0.50)
- PACS310 - Peace and the Environment (0.50)
- PACS313 - Community Conflict Resolution (0.50)
- PACS323 - Negotiation: Theories and Strategies (0.50)
- PACS327 - Cultural Approaches to Conflict Resolution (0.50)
- English Requirement
- Complete 1 ENGL course at the 100- or 200-level
- Ethics and Social Justice Requirement
- Complete 1 of the following:
- ARBUS202 - Professional and Business Ethics (0.50)
- BLKST201 - Taking B(l)ack History (0.50)
- BLKST203 - Introduction to Anti-Racist Communication (0.50)
- COMMST203 - Introduction to Anti-Racist Communication (0.50)
- ENGL225 - Introduction to Anti-Racist Communication (0.50)
- ENV5105 - Environmental Sustainability and Ethics (0.50)
- ERS225 - Gendering Environmental Politics (0.50)
- GSJ201 - Gender and Social Justice in Popular Culture (0.50)
- GSJ205 - Technology, Gender, and Social Justice (0.50)
- GSJ207 - Entrepreneurship, Gender, and Social Justice (0.50)
- GSJ304 - Research as Resistance (0.50)
- INDEV300 - Culture and Ethics (0.50)
- LS352 - Human Rights (0.50)
- PACS311 - Doing Development: Issues of Justice and Peace (0.50)
- PACS314 - Restorative Justice and Transformative Education (0.50)
- PACS315 - Engineering and Peace (0.50)
- PACS316 - Violence, Non-Violence, and War (0.50)
- PACS332 - Ethics of Peacebuilding (0.50)
- PHIL215 - Professional and Business Ethics (0.50)
- PHIL221 - Ethics (0.50)
- PHIL224 - Environmental Ethics (0.50)
- PHIL226 - Biomedical Ethics (0.50)
- PHIL227 - Culture and Ethics (0.50)
- PHIL228 - Ethics and Artificial Intelligence (0.50)
- PHIL319J - Ethics of End-of-Life Care (0.50)
- PHIL320 - Topics in Value Theory (0.50)
- PHIL326J - Philosophy of Social Justice (0.50)
- PHIL328 - Human Rights (0.50)
- PHIL329 - Violence, Non-Violence, and War (0.50)
- PHIL420 - Studies in Ethics (0.50)
- RCS383 - Justice, Peace, and Development (0.50)
- Languages Requirement
- Complete 1 of the following
- Complete all the following:
- ASL101R - American Sign Language 1 (0.50)
- ASL102R - American Sign Language 2 (0.50)
- Complete 2 of the following:
- ARABIC101R - Introduction to Arabic 1 (0.50)
- ARABIC102R - Introduction to Arabic 2 (0.50)
- ARABIC201R - Intermediate Arabic 1 (0.50)
- ARABIC202R - Intermediate Arabic 2 (0.50)
- Complete 2 of the following:

- CHINA101R - Elementary Chinese 1 (0.50)
- CHINA102R - Elementary Chinese 2 (0.50)
- CHINA120R - Chinese for Heritage Language Learners (0.50)
- CHINA201R - Intermediate Chinese 1 (0.50)
- CHINA202R - Intermediate Chinese 2 (0.50)
- CHINA301R - Advanced Chinese 1 (0.50)
- CHINA302R - Advanced Chinese 2 (0.50)
- CHINA310R - Chinese for Business Settings (0.50)
- CHINA320R - Chinese in Mass Media (0.50)
- Complete all the following:
- CROAT101 - Elementary Croatian 1 (0.50)
- CROAT102 - Elementary Croatian 2 (0.50)
- Complete all the following:
- DUTCH101 - Elementary Dutch 1 (0.50)
- DUTCH102 - Elementary Dutch 2 (0.50)
- Complete 2 of the following:
- FR151 - Basic French 1 (0.50)
- FR152 - Basic French 2 (0.50)
- FR192A - French Language 1: Module 1 (0.50)
- FR192B - French Language 1: Module 2 (0.50)
- FR251 - French Language 2: Module 1 (0.50)
- FR252 - French Language 2: Module 2 (0.50)
- Complete 2 of the following:
- GER101 - Elementary German 1 (0.50)
- GER102 - Elementary German 2 (0.50)
- GER201 - Intermediate German 1 (0.50)
- GER202 - Intermediate German 2 (0.50)
- GER211 - Contemporary German Language and Culture (0.50)
- GER250 - Performance German 1 (0.50)
- GER303 - Interactive German Language and Culture (0.50)
- GER304 - Reading and Translating (0.50)
- GER307 - German for Professional Purposes (0.50)
- GER308 - German Through Comics (0.50)
- GER331 - Exploring German Language and Literature (0.50)
- GER350 - Performance German 2 (0.50)
- Complete 2 of the following:
- GRK101 - Introductory Ancient Greek 1 (0.50)
- GRK102 - Introductory Ancient Greek 2 (0.50)
- RCS101 - Introductory Ancient Greek 1 (0.50)
- RCS102 - Introductory Ancient Greek 2 (0.50)
- Complete 2 of the following:
- INDG101 - Mohawk Language 1 (0.50)
- INDG102 - Mohawk Language 2 (0.50)
- MOHAWK101R - Mohawk Language 1 (0.50)
- MOHAWK102R - Mohawk Language 2 (0.50)
- Complete all the following:
- ITAL101 - Introduction to Italian Language 1 (0.50)
- ITAL102 - Introduction to Italian Language 2 (0.50)
- Complete 2 of the following:
- JAPAN101R - Elementary Japanese 1 (0.50)
- JAPAN102R - Elementary Japanese 2 (0.50)
- JAPAN111R - Japanese for Business 1 (0.50)
- JAPAN112R - Japanese for Business 2 (0.50)
- JAPAN201R - Intermediate Japanese 1 (0.50)
- JAPAN202R - Intermediate Japanese 2 (0.50)
- JAPAN301R - Advanced Japanese 1 (0.50)
- JAPAN302R - Advanced Japanese 2 (0.50)
- Complete 2 of the following:
- KOREA101R - Elementary Korean 1 (0.50)
- KOREA102R - Elementary Korean 2 (0.50)
- KOREA201R - Intermediate Korean 1 (0.50)
- KOREA202R - Intermediate Korean 2 (0.50)

- KOREA301R - Advanced Korean 1 (0.50)
- KOREA302R - Advanced Korean 2 (0.50)
- Complete all the following:
- LAT101 - Introductory Latin 1 (0.50)
- LAT102 - Introductory Latin 2 (0.50)
- Complete all the following:
- RUSS101 - Elementary Russian 1 (0.50)
- RUSS102 - Elementary Russian 2 (0.50)
- Complete 2 of the following:
- SPAN101 - Introduction to Spanish 1 (0.50)
- SPAN102 - Introduction to Spanish 2 (0.50)
- SPAN201A - Intermediate Spanish 1 (0.50)
- SPAN201B - Intermediate Spanish 2 (0.50)
- SPAN210 - Spanish Conversation (0.50)
- Mathematics Requirement
- Complete 2 of the following:
- ECON211 - Introduction to Mathematical Economics (0.50)
- ENVS178 - Environmental Applications of Data Management and Statistics (0.50)
- MATH103 - Introductory Algebra for Arts and Social Science (0.50)
- MATH104 - Introductory Calculus for Arts and Social Science (0.50)
- MATH106 - Applied Linear Algebra 1 (0.50)
- MATH114 - Linear Algebra for Science (0.50)
- MATH127 - Calculus 1 for the Sciences (0.50)
- MATH128 - Calculus 2 for the Sciences (0.50)
- MSE331 - Introduction to Optimization (0.50)
- PHIL240 - Introduction to Formal Logic (0.50)
- Natural and Physical Sciences Requirement
- Complete all of the following
- Complete 0.50 unit from the following lists of science courses; if a course offers a laboratory course (designated by an L), it must also be taken. See Additional Constraints.
- Choose any of the following:
- ANTH204 - Biological Anthropology (0.50)
- ANTH355 - Human Osteology (0.50)
- ANTH455 - Skeletal Biology and Forensics (0.50)
- Choose any of the following:
- BIOL130 - Introductory Cell Biology (0.50)
- BIOL130L - Cell Biology Laboratory (0.25)
- BIOL201 - Human Anatomy (0.50)
- BIOL211 - Introductory Vertebrate Zoology (0.50)
- BIOL235 - Foundations of Molecular Biology (0.50)
- BIOL240 - Fundamentals of Microbiology (0.50)
- BIOL240L - Microbiology Laboratory (0.25)
- BIOL241 - Introduction to Applied Microbiology (0.50)
- BIOL266 - Introduction to Computational Biology (0.50)
- BIOL302 - Functional Histology (0.50)
- BIOL310 - Invertebrate Zoology (0.50)
- BIOL325 - Flowering Plants (0.50)
- BIOL354 - Environmental Toxicology (0.50)
- BIOL365 - Methods in Bioinformatics (0.50)
- BIOL370 - Comparative Animal Physiology: Environmental Aspects (0.50)
- BIOL371 - Comparative Animal Physiology: Evolutionary Themes (0.50)
- BIOL373 - Principles of Human Physiology 2 (0.50)
- BIOL373L - Human Physiology Laboratory (0.25)
- BIOL376 - Cellular Neurophysiology (0.50)
- BIOL458 - Quantitative Ecology (0.50)
- BIOL469 - Genomics (0.50)
- BIOL470 - Methods of Aquatic Ecology (0.50)
- BIOL477L - Techniques in Animal Physiology (0.50)
- Choose any of the following:
- CHEM120 - General Chemistry 1 (0.50)
- CHEM120L - General Chemistry Laboratory 1 (0.25)
- CHEM123 - General Chemistry 2 (0.50)

- CHEM123L - General Chemistry Laboratory 2 (0.25)
- Choose any of the following:
- EARTH121 - Introductory Earth Sciences (0.50)
- EARTH121L - Introductory Earth Sciences Laboratory (0.25)
- EARTH123 - Introductory Hydrology (0.50)
- EARTH223 - Field Methods in Hydrology (0.50)
- EARTH231 - Mineralogy (0.50)
- EARTH235 - Stratigraphic Approaches to Understanding Earth's History (0.50)
- EARTH238 - Introductory Structural Geology (0.50)
- EARTH260 - Introductory Applied Geophysics (0.50)
- EARTH342 - Geomorphology and GIS Applications (0.50)
- Choose any of the following:
- ENVS200 - Field Ecology (0.50)
- ENVS300 - Vascular Plants of Southern Ontario (0.50)
- ENVS444 - Ecosystem and Resource Management in Parks/Natural Areas (0.50)
- Choose any of the following:
- GDS181 - Designing Effective Maps (0.50)
- GDS271 - Earth from Space Using Remote Sensing (0.50)
- GDS281 - Introduction to Geographic Information Systems (GIS) (0.50)
- GDS371 - Advanced Remote Sensing (0.50)
- Choose any of the following:
- GEOG205 - Landscape Dynamics (0.50)
- GEOG209 - Hydroclimatology (0.50)
- GEOG303 - Physical Hydrology (0.50)
- GEOG304 - Carbon in the Biosphere (0.50)
- GEOG320 - The Cryosphere (0.50)
- GEOG407 - Environmental Hydrology of Terrestrial Ecosystems (0.50)
- GEOG408 - Earth's Future Climates (0.50)
- GEOG420 - Ice Sheets and Glaciers (0.50)
- GEOG428 - Spatial Demography (0.50)
- Choose any of the following:
- KIN100 - Regional Human Anatomy (0.50)
- KIN100L - Regional Human Anatomy Laboratory (0.25)
- KIN121 - Biomechanics of Human Movement (0.50)
- KIN121L - Biomechanics of Human Movement Laboratory (0.25)
- KIN221 - Advanced Biomechanics of Human Movement (0.50)
- KIN221L - Advanced Biomechanics of Human Movement Laboratory (0.25)
- KIN301 - Human Anatomy of the Central Nervous System (0.50)
- Choose any of the following:
- MNS101 - Materials and Nanosciences in the Modern World (0.50)
- Choose any of the following:
- PHYS111 - Physics 1 (0.50)
- PHYS111L - Physics 1 Laboratory (0.25)
- PHYS112 - Physics 2 (0.50)
- PHYS112L - Physics 2 Laboratory (0.25)
- PHYS121 - Mechanics (0.50)
- PHYS121L - Mechanics Laboratory (0.25)
- PHYS122 - Electricity and Magnetism (0.50)
- PHYS122L - Waves, Electricity and Magnetism Laboratory (0.25)
- PHYS175 - Introduction to the Universe (0.50)
- PHYS175L - Introduction to the Universe Laboratory (0.25)
- Choose any of the following:
- PLAN281 - Introduction to Geographic Information Systems (GIS) (0.50)
- PLAN418 - Spatial Demography (0.50)
- Statistics Requirement
- Complete 1 of the following:
- ARTS280 - Statistics for Arts Students (0.50)
- ECON221 - Statistics for Economists (0.50)
- ENVS278 - Applied Statistics for Environmental Research (0.50)
- LS280 - Social Statistics (0.50)
- PSCI314 - Quantitative Analysis (0.50)
- PSYCH292 - Basic Data Analysis (0.50)

- SDS250R - Social Statistics (0.50)
- SOC280 - Social Statistics (0.50)
- SRF230 - Introduction to Statistics (0.50)
- STAT202 - Introductory Statistics for Scientists (0.50)
- STAT220 - Probability (Non-Specialist Level) (0.50)
- ~~GEOG310 - Geodesy and Surveying (0.50)~~

**Are there cross-listed courses listed in requirements?**

Yes

**Cross-Listings Options**

All cross-listings to be displayed

**Additional Constraints**

1. Students may only complete one course from any cross-listed set.
2. INTEG10 should appear on a student's course schedule every term.
3. INTEG340 can be substituted with an alternative research methods course with approval from the School's associate director, undergraduate studies.
4. Students completing a joint major or concurrent degree that includes an equivalent senior research project may request that the School's associate director, undergraduate studies approve the associated courses as equivalent to INTEG420A and INTEG420B. Note that there may be additional requirements involved in such an arrangement, which is required to be formally organized in advance of taking the equivalent course sequence.
5. Breadth requirements:
  1. For courses taken towards the natural and physical sciences breadth requirement:
    1. If BIOL235 is taken, BIOL335L must also be taken in a subsequent term.
    2. If BIOL370 or BIOL371 is taken, BIOL477L must also be taken.
    3. If EARTH123 is taken, EARTH223 must also be taken.
  2. In exceptional cases, students may request to have a course count towards a breadth requirement that is not listed above. In particular, students transferring from other academic plans or pursuing Joint Honours may find that some of their courses may meet breadth requirements. Students considering these options should consult with the Knowledge Integration academic advisor.

## Notes

- See list of [academic advisors](#).
- See Knowledge Integration website for [recommended course sequence](#) and for guidance on [breadth courses](#), including suggested courses for Year One and Year Two.

## Specializations

### Specializations for this Major

Yes - Optional

### Specialization Details

Students (including Joint Honours) may choose to focus their elective choices by completing one, or both, available specializations.

### Specializations List

KI-Collaborative Design Specialization, or KI-Science, Technology, & Society Specialization

## Undergraduate Plan Guidelines

## Workflow Information

### Change to Undergraduate Communication Requirement

No

**Workflow Path**  
Committee approvals

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

## Dependencies

### Prerequisites

- STAT 202 - Introductory Statistics for Scientists [View Program](#)

### Antirequisites

- INTEG 210 - Making Collaboration Work [View Program](#)

### Prerequisites

- INTEG 410 - Interdisciplinary Collaboration [View Program](#)
- INTEG 420A - Senior Honours Project A [View Program](#)
- INTEG 475A - Special Topics in Knowledge Integration [View Program](#)
- INTEG 230 - The Museum Course: Preparation and Field Trip [View Program](#)

### Specialization is available for students in the following majors

- KI-Collaborative Design Specialization - Collaborative Design Specialization [View Program](#)
- KI-Science, Technology, & Society Specialization - Science, Technology, and Society Specialization [View Program](#)

## KI-Science, Technology, & Society Specialization - Science, Technology, and Society Specialization

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## Effective Date and Career

**Career**  
Undergraduate

**Effective Term and Year**

Proposed

Effective Term and Year

Fall 2027

Existing

Effective Term and Year

Fall 2026

## Proposal Details

**Proposal Type**

Change

**Quality Assurance Designation**

Minor Modification Qad

**Is there an impact to existing students?**

No

**Is the credential name changing?**

No

**Co-operative System of Study and Requirements**

Not Applicable

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

Removing INDEV262 from the elective course list, as it is being retired.

Related agenda proposals:

- INDEV262

**General Program/Plan Information**

**Faculty**

Faculty of Environment

**Academic Unit**

School of Environment, Resources and Sustainability

**Field of Study**

Knowledge Integration

**Faculty**

Faculty of Environment

**Undergraduate Credential Type**

Specialization

**Program/Plan Name**

Science, Technology, and Society Specialization

## Admissions

**Specialization is available for students in the following majors**

H-Knowledge Integration

**Admissions Entry Point**

Declare Plan

## Requirements Information

**Invalid Combinations**

No

**Average Requirement**

No

**Graduation Requirements**

- Complete a total of 3.5 units:
  - 2.0 units of required courses.
  - 1.5 units of approved courses (see Additional Constraints).

## Course Requirements (units)

### 1. Required Courses

- 2Units to CompleteComplete all of the following
- Complete all the following:
- INTEG120 - The Art and Science of Learning (0.50)
- Complete 1 of the following:
- INTEG220 - Nature of Scientific Knowledge (0.50)
- PHIL290 - Nature of Scientific Knowledge (0.50)
- Complete 1 of the following:
- INTEG221 - The Social Nature of Knowledge (0.50)
- PHIL291 - The Social Nature of Knowledge (0.50)
- Complete 1 of the following:
- INTEG240 - Bullshit, Bias, and Bad Arguments (0.50)
- INTEG375 - Special Topics in Knowledge Integration (0.50)
- INTEG410 - Interdisciplinary Collaboration (0.50)
- INTEG441 - Hard Decisions and Wicked Problems (0.50)
- INTEG475 - Special Topics in Knowledge Integration (0.50)
- Approved Courses List1.5Units to CompleteComplete 3 of the following:
- ANTH303 - Anthropology of Digital Media (0.50)
- ANTH347 - Medical Anthropology (0.50)
- ANTH430 - Science as Practice and Culture (0.50)
- ARTS490 - Fourth-Year Topics in Arts Disciplines (0.50)
- ENGL108D - Digital Lives (0.50)
- ENGL293 - Introduction to Digital Media Studies (0.50)
- ENVS210 - Future Studies (0.50)
- ENVS310 - Future Cities: Integrating Future Thinking into Urban Decisions (0.50)
- ERS316 - Urban Water and Wastewater Systems: Integrated Planning and Management (0.50)
- ERS361 - Food Systems and Sustainability (0.50)
- ERS372 - First Nations and the Environment (0.50)
- ERS404 - Global Environmental Governance (0.50)
- ERS422 - Biosphere Reserves as Social-Ecological Systems (0.50)
- ERS454 - Parks and Protected Areas: Issues and Trends (0.50)
- ERS462 - Global Food and Agricultural Politics (0.50)
- GEOG207 - Climate Change Fundamentals (0.50)
- GEOG306 - Human Dimensions of Natural Hazards (0.50)
- GEOG307 - Societal Adaptation to Climate Change (0.50)
- GEOG311 - The Global Economy (0.50)
- GEOG326 - Environment and Development in a Global Perspective (0.50)
- GEOG361 - Food Systems and Sustainability (0.50)
- GEOG426 - Development and Global Change: Worlds in Transition (0.50)
- GEOG432 - Health and the Built Environment (0.50)
- GEOG462 - Global Food and Agricultural Politics (0.50)
- HIST212 - The Computing Society (0.50)
- HIST216 - From Gutenberg to Zuckerberg: A (Long) History of the Internet (0.50)
- HLTH420 - Health and the Built Environment (0.50)
- LS413 - Surveillance and Society (0.50)
- PACS301 - Special Topics in Peace and Conflict Studies 1 (0.50)
- PACS302 - Special Topics in Peace and Conflict Studies 2 (0.50)
- PHIL208 - Philosophy Through Science Fiction (0.50)
- PHIL224 - Environmental Ethics (0.50)
- PHIL226 - Biomedical Ethics (0.50)
- PHIL252 - Quantum Mechanics for Everyone (0.50)
- PHIL256 - Introduction to Cognitive Science (0.50)
- PHIL259 - Philosophy of Technology (0.50)
- PHIL271 - Special Topics (0.50)
- PHIL358 - Topics in Philosophy of Science (0.50)

- PHIL447 - Seminar in Cognitive Science (0.50)
- PLAN240 - Environmental Planning and Policy (0.50)
- PLAN246 - Tools for Public Participation (0.50)
- PLAN262 - Introduction to Global Emerging Cities (0.50)
- PLAN333 - Neighbourhood and Community Planning (0.50)
- PLAN431 - Issues in Housing (0.50)
- PLAN432 - Health and the Built Environment (0.50)
- PLAN433 - Social Issues in Planning (0.50)
- PLAN440 - Urban Services (0.50)
- PSCI432 - Global Environmental Governance (0.50)
- PSCI488 - Global Food and Agricultural Politics (0.50)
- PSYCH256 - Introduction to Cognitive Science (0.50)
- PSYCH447 - Seminar in Cognitive Science (0.50)
- RCS383 - Justice, Peace, and Development (0.50)
- SCI205 - Climate Change Fundamentals (0.50)
- SCI252 - Quantum Mechanics for Everyone (0.50)
- SOC232 - Technology and Social Change (0.50)
- SOC248 - Health, Illness, and Society (0.50)
- SOC312 - Sociology of Science (0.50)
- SOC413 - Surveillance and Society (0.50)
- SOC431 - Science as Practice and Culture (0.50)
- STV100 - Society, Technology and Values: Introduction (0.50)
- STV201 - Society, Technology and Values: Special Topics (0.50)
- STV202 - Design and Society (0.50)
- STV205 - Cybernetics and Society (0.50)
- STV208 - Artificial Intelligence and Society: Impact, Ethics, and Equity (0.50)
- STV210 - The Computing Society (0.50)
- STV302 - Information Technology and Society (0.50)
- STV304 - Technology in Canadian Society (0.50)
- STV305 - Technology, Society and the Modern City (0.50)
- STV306 - Biotechnology and Society (0.50)
- STV400 - Society, Technology and Values: Senior Project (0.50)
- STV401 - Society, Technology and Values: Advanced Topics (0.50)
- Grand Total Units: 3.5
- ~~INDEV262 - Introduction to Global Emerging Cities (0.50)~~

### **Course Requirements (no units)**

#### Required Courses

- No Rules

### **Course Lists**

#### Required Courses

- No Rules

### **Are there cross-listed courses listed in requirements?**

Yes

### **Cross-Listings Options**

All cross-listings to be displayed

## Additional Constraints

1. Students may only complete one course from any cross-listed set.
2. Certain courses can only be used towards this Specialization if students enrol in specific topics:
  1. To use ARTS490, the topic must be "The Socio-Cultural and Political Implications of Artificial Intelligence".
  2. To use INTEG375, the topic must be "Hands on Sustainability" or "Science and Technology".
  3. To use INTEG475, the topic must be "Open Science and Technology".
3. Of the approved courses list, choices must be from at least two subject codes (i.e., ERS, PLAN, STV, etc.), and two courses must be at the 300-level or above.

## Notes

- See list of [academic advisors](#).

## Specializations

## Undergraduate Plan Guidelines

## Workflow Information

### Workflow Path

Committee approvals

### Faculty/AFIW Path(s) for Workflow

Faculty of Environment

## Dependencies

### Specializations List

- H-Knowledge Integration - Knowledge Integration (Bachelor of Knowledge Integration - Honours) [View Program](#)

# Urban Studies Minor - Urban Studies Minor

[Top](#)

## Effective Date and Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

## Proposal Details

**Proposal Type**

Change

**Quality Assurance Designation**

Minor Modification Qad

**Is there an impact to existing students?**

No

**Is the credential name changing?**

No

**Co-operative System of Study and Requirements**

Not Applicable

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

Removing INDEV262, which is being retired, from Theme 4: Emerging Global Urban Regions.

Removing EARTH358, which is being retired, from Theme 2: Urban Activity and The Environment.

Related agenda proposals:

- INDEV262

### **Consultations (Departmental)**

Earth Sciences Department informed us of the retirement of EARTH358.

## **General Program/Plan Information**

### **Faculty**

Faculty of Environment

### **Academic Unit**

Dean of Environment Office

### **Field of Study**

Urban Studies

### **Faculty**

Faculty of Environment

### **Undergraduate Credential Type**

Minor

### **Program/Plan Name**

Urban Studies Minor

## Admissions

### Admissions Entry Point

Declare Plan

### Declaration Audience

This credential is open to students enrolled in any degree program.

## Requirements Information

### Invalid Combinations

No

### Average Requirement

Yes

### Minimum Average(s) Required

- A minimum cumulative minor average of 65.0%.

### Graduation Requirements

- Complete a total of 4.5 units:
  - Complete 2.0 units of required courses.
  - Complete 2.5 units of courses from one theme described below.

## Course Requirements (units)

### 1. Required Courses

- 4.5 Units to Complete Complete all of the following
- Complete all the following:
  - ECON101 - Introduction to Microeconomics (0.50)
  - PLAN100 - Urbanization Today: Introduction to Cities and Regions (0.50)
  - PLAN233 - Social Planning and Community Development (0.50)
- Complete 1 of the following:
  - ENVS195 - Introduction to Environmental Studies (0.50)
  - GEOG101 - Changing Human Environments (0.50)
- Themes
- Complete 1 of the following
  - Theme 1: Urban Economics/Finance
- Complete all of the following
- Complete all the following:
  - ECON201 - Microeconomic Theory for Business and Policy (0.50)
- Complete 4 of the following:
  - AE392 - Economics and Life Cycle Cost Analysis (0.50)
  - CIVE392 - Economics and Life Cycle Cost Analysis (0.50)
  - ECON241 - Introduction to Public Economics (0.50)
  - ECON351 - Labour Economics (0.50)
  - ECON361 - Cost-Benefit Analysis and Project Evaluation (0.50)
  - ECON437 - Urban Economics (0.50)
  - ECON441 - Public Economics (0.50)
  - ECON451 - Law and Economics (0.50)
  - ENBUS204 - Principles of Industrial Ecology (0.50)
  - ENBUS405 - Introduction to Life Cycle Assessment (0.50)
  - ENVE392 - Economics and Life Cycle Cost Analysis (0.50)
  - ERS320 - Economics and Sustainability (0.50)
  - GEOE392 - Economics and Life Cycle Cost Analysis (0.50)
  - GEOG311 - The Global Economy (0.50)
  - GEOG319 - Economic Analyses for Regional Planning (0.50)
  - MSE261 - Engineering Economics: Financial Management for Engineers (0.50)
  - PLAN103 - Planning Governance and Administration (0.50)
  - PLAN320 - Economic Analyses for Regional Planning (0.50)
  - PLAN416 - Modelling the City (0.50)
  - PLAN483 - Land Development Planning (0.50)
- Theme 2: Urban Activity and The Environment
- Complete all of the following
- Complete all the following:
  - ENVS200 - Field Ecology (0.50)
- Complete 4 of the following:
  - BIOL225 - Plant Knowledge and Practices: Indigenous and Western Science Perspectives (0.50)
  - BIOL350 - Ecosystem Ecology (0.50)
  - BIOL455 - Ecological Risk Assessment and Management (0.50)
  - BIOL457 - Analysis of Communities (0.50)
  - CIVE440 - Transit Planning and Operations (0.50)
  - CIVE484 - Physical Infrastructure Planning (0.50)
  - EARTH270 - Disasters and Natural Hazards (0.50)
  - EARTH281 - Geological Impacts on Human Health (0.50)
  - ECON255 - Introduction to Environmental and Natural Resource Economics (0.50)
  - ENVS469 - Landscape Ecology, Restoration and Rehabilitation (0.50)
  - ERS316 - Urban Water and Wastewater Systems: Integrated Planning and Management (0.50)
  - GEOG306 - Human Dimensions of Natural Hazards (0.50)
  - GEOG349 - Urban Form and Spatial Structure (0.50)
  - GEOG351 - Transportation, Mobility, and Sustainability (0.50)
  - GEOG368 - Ecology and Conservation for Planning (0.50)

- GEOG453 - Urban Stormwater Management (0.50)
- PLAN341 - Ecology and Conservation for Planning (0.50)
- PLAN349 - Urban Form and Spatial Structure (0.50)
- PLAN416 - Modelling the City (0.50)
- PLAN451 - Environmental Planning in Rural and Regional Systems (0.50)
- PLAN453 - Urban Stormwater Management (0.50)
- PLAN478 - Transit Planning and Operations (0.50)
- PLAN483 - Land Development Planning (0.50)
- PLAN484 - Physical Infrastructure Planning (0.50)
- Theme 3: Urban Societies
- Complete all of the following
- Complete all the following:
- ERS253 - Communities and Sustainability (0.50)
- Complete 4 of the following:
- ANTH272 - Issues in Contemporary Indigenous Communities in Canada (0.50)
- EASIA220R - The History of East Asian Communities in Canada (0.50)
- ECON363 - The Economics of Social Problems (0.50)
- ECON437 - Urban Economics (0.50)
- GEOG325 - Geographies of Health (0.50)
- GEOG432 - Health and the Built Environment (0.50)
- GSJ302 - Thinking Through Gender: Feminist Perspectives (0.50)
- HIST231R - The History of East Asian Communities in Canada (0.50)
- HIST260 - Medieval Europe c.300-c.1500 (0.50)
- HIST374 - Canada's Social History (0.50)
- HLTH420 - Health and the Built Environment (0.50)
- INDG272 - Issues in Contemporary Indigenous Communities in Canada (0.50)
- INTEG121 - Collaboration, Design Thinking, and Problem Solving (0.50)
- INTEG221 - The Social Nature of Knowledge (0.50)
- MEDVL260 - Medieval Europe c.300-c.1500 (0.50)
- PACS313 - Community Conflict Resolution (0.50)
- PHIL291 - The Social Nature of Knowledge (0.50)
- PLAN333 - Neighbourhood and Community Planning (0.50)
- PLAN431 - Issues in Housing (0.50)
- PLAN432 - Health and the Built Environment (0.50)
- PLAN433 - Social Issues in Planning (0.50)
- REC422 - Urban Recreation (0.50)
- SDS231R - Introduction to Social Policy Processes (0.50)
- SDS312R - Homelessness and Public Policy (0.50)
- SDS322R - Community Engagement and Social Development (0.50)
- SOC224R - Poverty in Canada and its Social Consequences (0.50)
- SOC248 - Health, Illness, and Society (0.50)
- SOC369J - The Sociology of Community (0.50)
- SOCWK222R - Community Organization (0.50)
- STV305 - Technology, Society and the Modern City (0.50)
- Theme 4: Emerging Global Urban Regions
- Complete all of the following
- Complete all the following:
- PLAN262 - Introduction to Global Emerging Cities (0.50)
- Complete 4 of the following:
- ANTH382 - Anthropology of East Asia (0.50)
- EASIA277R - International Relations of East Asia (0.50)
- EASIA301R - The Political Economy of East Asia (0.50)
- EASIA382R - Anthropology of East Asia (0.50)
- ERS404 - Global Environmental Governance (0.50)
- GEOG202 - Economy and Development: Spaces of Global Transformation (0.50)
- GEOG311 - The Global Economy (0.50)
- GEOG326 - Environment and Development in a Global Perspective (0.50)
- GEOG411 - The Digital Economy (0.50)
- GEOG426 - Development and Global Change: Worlds in Transition (0.50)
- HIST282 - History of Modern South Asia 1750-2000 (0.50)
- INDEV404 - International Development Theory (0.50)
- PLAN440 - Urban Services (0.50)

- PSCI252 - Global South (0.50)
- PSCI277 - International Relations of East Asia (0.50)
- PSCI283 - International Political Economy (0.50)
- PSCI358 - Political Change in China (0.50)
- PSCI359 - Politics of South Asia (0.50)
- PSCI405 - Chinese Political Economy (0.50)
- PSCI432 - Global Environmental Governance (0.50)
- SDS388R - Globalization and Social Development (0.50)
- Grand Total Units: 4.5
- ~~EARTH358 – Earth System Science (0.50)~~
- ~~INDEV262 – Introduction to Global Emerging Cities (0.50)~~

**Course Requirements (no units)**

Required Courses

- No Rules

**Course Lists**

Required Courses

- No Rules

**Are there cross-listed courses listed in requirements?**

Yes

**Cross-Listings Options**

All cross-listings to be displayed

**Additional Constraints**

1. Students may only complete one course from any cross-listed set.

**Notes**

- See list of [academic advisors](#).

**Specializations**

**Undergraduate Plan Guidelines**

**Adherence to Academic Plan Guidelines**

Yes

**Workflow Information**

**Workflow Path**

Committee approvals

**Faculty/AFIW Path(s) for Workflow**

Faculty of Environment

**Dependencies**

There are no dependencies

**For Approval****Regular Agenda**

<b>To:</b>	Senate Undergraduate Council
<b>Sponsor/Presenter:</b>	David DeVidi, Associate Vice-President, Academic
<b>Date of Meeting:</b>	June 16, 2026
<b>Agenda Item Identification:</b>	6.1. SUC Curriculum Subcommittee Report: Regular Agenda for Approval

**Recommendation/Motion**

To recommend that Senate approve the following curricular motions, as presented:

Faculty of Environment – Regular Agenda

To recommend to SUC that Senate approve the major modifications for the Environment and Business plan with the addition of the Sustainable Innovation and Entrepreneurship Specialization for the Faculty of Environment, effective September 1, 2027, as presented.

**Summary**

The SUC Curriculum Subcommittee has reviewed and agreed, via an e-vote which closed on June 5, 2026 to recommend to SUC for approval or receive for information as part of the regular agenda, the items included in the subsequent sections of this report (6.2).

To support easier navigation, items are also available in Quali Curriculum Management (CM) via the following links. Please review the [online guide](#) for additional information about Quali CM. If you have any issues accessing the links below, please contact Tony Ly, Governance Officer, for support.

- i. [Faculty of Environment – Regular Agenda](#)

**Jurisdictional Information**

As provided for in [Senate Bylaw 2](#), section 5.03, council is empowered to make approvals on behalf of Senate for a variety of operational matters:

- b. Make recommendations to Senate with respect to new undergraduate programs/plans, the deletion of undergraduate programs/plans, and major changes to undergraduate programs/plans.

**Governance Path**

Senate Undergraduate Council, Curriculum Subcommittee: June 5, 2026 (via e-vote)

Senate Undergraduate Council: June 16, 2026 (prospective)

**Documents Included**

- 6.2. Faculty of Environment

Date 2026/05/29

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## Meeting Information

### Agenda Page Title

SUC - 2026-06 - Regular Agenda - Faculty of Environment

**Career Level**  
Undergraduate,

**Faculty/Unit**  
Faculty of Environment

**Date**  
2026-06-16

### Summary

### Other Business

Attachment(s)

## Course Proposals

### Course Proposal Details

**Courses: Retire**  
No proposals have been added.

**Courses: New**  
No proposals have been added.

**Courses: Changes**

No proposals have been added.

## Programs & Plans Proposals

**Programs & Plans Proposal Details**

Major modifications:

- New Specialization for EB: Sustainable Innovation and Entrepreneurship Specialization

**Programs & Plans: Retire**

No proposals have been added.

**Programs & Plans: Major Modifications**

Code	Title	Type	Workflow Step
<a href="#">H-Environment &amp; Business</a>	Environment and Business (Bachelor of Environmental Studies - Honours)	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<a href="#">ENBUS-Sustainable Innovation &amp; Entrepreneurship Specialization</a>	Sustainable Innovation and Entrepreneurship Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee

**Programs & Plans: Minor Modifications**

No proposals have been added.

## Regulations Proposals

**Regulations: Retire**

No proposals have been added.

**Regulations: New**

No proposals have been added.

**Regulations: Changes**

No proposals have been added.

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# Business (Bachelor of Environmental Studies - Honours)

## Effective Date and Career

### Career

Undergraduate

### Effective Term and Year

Proposed

#### Effective Term and Year

Fall 2027

Existing

#### Effective Term and Year

Fall 2026

## Proposal Details

### Proposal Type

Change

### Quality Assurance Designation

Major Modification Qad

### Major Modification Categories

Add/re-name a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

### Is there an impact to existing students?

Yes

### Impact on Existing Students

Students graduating after October 2027 will be allowed to complete this specialization.

### Is the credential name changing?

No

**Co-operative System of Study and Requirements**

No

**Creating or Changing Invalid Combinations**

No

**Change to Learning Outcomes**

No

**Rationale and Background for Change(s)**

Addition of a new specialization to the Environment and Business plan.

Related agenda items:

- ENBUS-Sustainable Innovation & Entrepreneurship Specialization

**Consultations (Departmental)**

See specialization proposal.

**General Program/Plan Information**

**Faculty**

Faculty of Environment

**Academic Unit**

School of Environment, Enterprise and Development

**Field of Study**

**Faculty**

Faculty of Environment

Environment and Business

**Undergraduate Credential Type**  
Major

**Program Type**  
Honours

**Degree**  
Bachelor of Environmental Studies

**Program/Plan Name**

Environment and Business (Bachelor of Environmental Studies - Honours)

**Systems of Study**

Co-operative, Regular

**Admissions**

**Admissions Entry Point**

Both

## Requirements Information

### Invalid Combinations

Yes

### List of Invalid Combinations

Business Option

Management Studies Minor

### Average Requirement

Yes

### Minimum Average(s) Required

- A minimum cumulative overall average of 65.0%.
- A minimum cumulative major average of 70.0%: required courses and all ENBUS and ENVS courses.

### Graduation Requirements

- See [Bachelor of Environmental Studies degree-level requirements](#).
- Complete a total of 20.0 units:
  - 13.5 units of required courses.
  - 1.5 units of approved courses.
  - 5.0 units of elective courses.

### Co-operative Education Program Requirements

For students in the co-operative system of study, see [Bachelor of Environmental Studies co-operative education program requirements](#).

### Course Requirements (units)

Required Courses

- 13.5 Units to Complete
- Complete all of the following
  - Complete all the following:
    - ENBUS102 - Introduction to Environment and Business (0.50)
    - ENBUS103 - Economics and Sustainability 1 (0.50)
    - ENBUS104 - Economics and Sustainability 2 (0.50)
    - ENBUS112 - Operationalizing Sustainable Development within Business (0.50)
    - ENBUS202 - Environmental Management Systems (0.50)
    - ENBUS203 - Green Entrepreneurship (0.50)
    - ENBUS204 - Principles of Industrial Ecology (0.50)
    - ENBUS211 - Principles of Marketing for Sustainability Professionals (0.50)
    - ENBUS302 - Strategies for Environment and Business (0.50)
    - ENBUS306 - Research Design (0.50)

- ENBUS310 - Introduction to Sustainable Finance (0.50)
- ENV5105 - Environmental Sustainability and Ethics (0.50)
- ENV5131 - Communications for Environmental Professions (0.50)
- ENV5178 - Environmental Applications of Data Management and Statistics (0.50)
- ENV5195 - Introduction to Environmental Studies (0.50)
- ENV5200 - Field Ecology (0.50)
- ENV5201 - Introduction to Canadian Environmental Law (0.50)
- ENV5220 - Ecological Economics (0.50)
- ENV5278 - Applied Statistics for Environmental Research (0.50)
- ERS215 - Environmental and Sustainability Assessment 1 (0.50)
- GEOG202 - Economy and Development: Spaces of Global Transformation (0.50)
- Complete 1 of the following:
  - AFM123 - Accounting Information for Managers (0.50)
  - ARBUS102 - Accounting Information for Managers (0.50)
- Complete 1 of the following:
  - AFM131 - Introduction to Business in North America (0.50)
  - ARBUS101 - Introduction to Business in North America (0.50)
- Complete 2 of the following:
  - ARBUS202 - Professional and Business Ethics (0.50)
  - ENBUS304 - Circular Economy (0.50)
  - ENBUS308 - Sustainability Management Standards and Auditing (0.50)
  - ENBUS309 - Behaviour Change and Sustainability (0.50)
  - ENBUS314 - Sustainable Business Models (0.50)
  - ENBUS315 - Fashion, Consumption, and Sustainability (0.50)
  - ENBUS375 - Special Topics in Environment and Business (0.50)
  - HRM200 - Basic Human Resources Management (0.50)
  - PHIL215 - Professional and Business Ethics (0.50)
- Complete 1 of the following
  - Complete all the following:
    - ENBUS409A - Environment and Business Project (0.50)
    - ENBUS409B - Environment and Business Project (0.50)
  - Complete all the following:
    - ENV5403A - Interdisciplinary Project (0.50)
    - ENV5403B - Interdisciplinary Project (0.50)
- Grand Total Units: 13.5

### **Course Requirements (no units)**

#### Required Courses

- No Rules

### **Course Lists**

#### Approved Courses List

- Complete all of the following
- Complete 1.5 units from the following list.
- Choose any of the following:
  - ENBUS405 - Introduction to Life Cycle Assessment (0.50)
  - ENBUS406 - Industrial Ecology: Sustainable Materials (0.50)
  - ENBUS407 - Corporate Sustainability Accounting and Reporting (0.50)
  - ENBUS408 - Policy Instruments for Sustainability (0.50)
  - ENBUS410 - Engaging Stakeholders (0.50)
  - ENBUS411 - Corporate Social Responsibility in Practice (0.50)

- ENBUS475 - Special Topics in Environment and Business (0.50)
- ENV5401 - Canadian Law, Indigenous Peoples, and Natural Resource Development (0.50)
- ENV5434 - Electric Energy Systems (0.50)
- ENV5459 - Energy, Governance, and Sustainability (0.50)

**Are there cross-listed courses listed in requirements?**

Yes

**Cross-Listings Options**

All cross-listings to be displayed

**Additional Constraints**

1. If a minimum grade of 60.0% is achieved in ENV5131, the Undergraduate Communication Requirement (UCR) milestone will be granted. If the minimum grade is not met, see [Bachelor of Environmental Studies degree-level requirements](#) and contact the Environment and Business academic advisor.

## Notes

- See list of [academic advisors](#).
- See Environment and Business website for [recommended course sequence](#).

## Specializations

### Specializations for this Major

Yes - Optional

### Specialization Details

#### Proposed

#### Specialization Details

Students may choose to focus their elective choices by completing one or more specializations.

#### Existing

#### Specialization Details

Students may choose to focus their elective choices by completing the available specialization.

### Specializations List

1. ENBUS-Sustainable Finance Specialization, or
  - **Not Found**

## Undergraduate Plan Guidelines

## Workflow Information

### Change to Undergraduate Communication Requirement

No

**Workflow Path**

**Faculty/AFIW Path(s) for Workflow**

## Dependencies

### Prerequisites

- INDEV 308 - Introduction to Social Entrepreneurship [View Program](#)
- ENBUS 407 - Corporate Sustainability Accounting and Reporting [View Program](#)
- SFM 401 - Social and Human Capital Accounting [View Program](#)
- ARCH 327 - Architecture of the Urban Environment [View Program](#)
- ENBUS 202 - Environmental Management Systems [View Program](#)
- ENBUS 410 - Engaging Stakeholders [View Program](#)
- SFM 311 - Social Systems Finance [View Program](#)
- SFM 411 - Natural Systems Finance [View Program](#)
- SFM 413 - Integrating Natural and Social Systems in Finance [View Program](#)
- ENVS 105 - Environmental Sustainability and Ethics [View Program](#)
- ENBUS 409A - Environment and Business Project [View Program](#)
- SFM 201 - Social Issues in Sustainability [View Program](#)
- SFM 402 - Natural Capital Accounting [View Program](#)
- ENBUS 402A - Environment and Business Project [View Program](#)
- ENBUS 306 - Research Design [View Program](#)
- SFM 403 - Integrated Planning, Reporting, and Risk Management for Sustainability [View Program](#)
- AFM 123 - Accounting Information for Managers [View Program](#) [View Program](#)

### Antirequisites

- AFM 101 - Introduction to Financial Accounting [View Program](#)
- ERS 370 - Corporate Sustainability: Issues and Prospects [View Program](#)

### Specialization is available for students in the following majors

- ENBUS-Sustainable Finance Specialization - Sustainable Finance Specialization [View Program](#)

# ENBUS-Sustainable Innovation & Entrepreneurship Specialization - Sustainable Innovation and Entrepreneurship Specialization

[Top](#)

## Effective Date and Career

**Career**  
Undergraduate

**Effective Term and Year**  
Fall 2027

## Proposal Details

**Proposal Type**  
New

**Academic Unit Approval**  
2026-02-06

**Quality Assurance Designation**  
Major Modification Qad

### Major Modification Categories

Add/re-name a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

**Recruitment Materials**  
Yes

**Co-operative System of Study and Requirements**  
Not Applicable

**Creating or Changing Invalid Combinations**  
No

**Change to Learning Outcomes**  
No

## Rationale and Background for New Program/Plan

Environment and Business (ENBUS) students have always had access to the Entrepreneurship minor delivered by the Conrad School of Business and Entrepreneurship. However, there are limited open electives within the ENBUS degree and committing to the minor would require ENBUS students to dedicate all of their electives to this minor. Conrad and SEED worked together to develop a five-course specialization that allows ENBUS students to achieve an entrepreneurship specialization. The specialization recognizes that students in the ENBUS program have existing business and entrepreneurship knowledge from courses within the program, which may be replicated within the full Entrepreneurship minor.

The Entrepreneurship minor is an invalid combination with this specialization, due to the extensive overlap of courses and content.

Related agenda proposals:

- H-Environment and Business

## Consultations (Departmental)

Conrad School of Business and Entrepreneurship and SEED worked together to develop this specialization. The Faculty of Arts (SAF) is also aware that ENBUS is adding this specialization.

## General Program/Plan Information

### Faculty

Faculty of Environment

### Academic Unit

School of Environment, Enterprise and Development

### Field of Study

Environment and Business

### Faculty

Faculty of Environment

### Undergraduate Credential Type

Specialization

### Program/Plan Name

Sustainable Innovation and Entrepreneurship Specialization

## Admissions

**Specialization is available for students in the following majors**

H-Environment & Business

**Admissions Entry Point**

Declare Plan

## Requirements Information

**Invalid Combinations**

Yes

**List of Invalid Combinations**

Entrepreneurship Minor

### **Average Requirement**

No

### **Graduation Requirements**

- Complete a minimum of 2.5 units.

### **Course Requirements (units)**

Required Courses

- 2.5Units to Complete
- Complete all of the following
  - Complete all the following:
    - BET100 - Foundations of Entrepreneurial Practice (0.50)
    - BET320 - Entrepreneurial Strategy (0.50)
    - BET420 - Entrepreneurship for Social Impact (0.50)
    - ENBUS304 - Circular Economy (0.50)
  - Complete 1 of the following
    - Complete 1 of the following:
      - ENBUS309 - Behaviour Change and Sustainability (0.50)
      - ENBUS314 - Sustainable Business Models (0.50)
      - ENBUS315 - Fashion, Consumption, and Sustainability (0.50)
    - Any additional BET course
- Grand Total Units: 2.5

### **Course Requirements (no units)**

Required Courses

- No Rules

### **Course Lists**

Required Courses

- No Rules

### **Are there cross-listed courses listed in requirements?**

No

## **Specializations**

## **Undergraduate Plan Guidelines**

## **Workflow Information**

**Workflow Path**  
Committee approvals

**Faculty/AFIW Path(s) for Workflow**

Faculty of Environment

## Dependencies

There are no dependencies

**For Information****Open Session**

**To:** Senate Undergraduate Council

**From:** Ian VanderBurgh  
AVP, Strategic Enrolment Management  
University Lead, Global Engagement

**Date of Meeting:** June 16, 2026

**Agenda Item:** **7. Transnational Education Programs**

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**Recommendation/Motion**

This item is being brought forward for information. No action/motion is required.

**Summary**

The University of Waterloo is exploring a number of activities in support of Transnational Education (TNE). TNE is simply defined as the delivery of educational programs across national borders and encompasses a wide variety of institutional strategies, partnership models and levels of risk.

**Proposal/Rationale**

The purpose of bringing this item forward for information is to provide Senate Undergraduate Council/Senate Graduate Council with an overview of the TNE landscape and possible models, including risks, rewards, and considerations.

**Jurisdictional Information**

TNE activity will be done in compliance with any relevant legislation, policies or guiding documents.

**Governance Path**

TNE activities will be undertaken in consultation with the Secretariat to ensure appropriate governance paths are followed.

**For Information****Open Session**

**To:** Senate Undergraduate Council

**From:** Mark Weber  
Special Advisor to the Provost, Leadership Strategy and Development

**Date of Meeting:** June 16, 2026

**Agenda Item:** **8. Business Programs and Courses**

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**Summary**

Mark Weber, Special Advisor to the Provost, Leadership Strategy and Development, will provide an update on business programs and courses.

**Documentation Provided**

N/A