

Undergraduate Plan Guidelines

Workflow Information

Change to Undergraduate Communication Requirement

No,

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Science

Dependencies

Prerequisites

- PHYS 490 - Special Topics in Physics [View Program](#)
- PHYS 364 - Mathematical Physics 1 [View Program](#)
- PHYS 365 - Mathematical Physics 2 [View Program](#)
- PHYS 160L - Introductory Measurement Laboratory [View Program](#)
- PHYS 437A - Research Project [View Program](#)
- PHYS 360A - Modern Physics Laboratory 1 [View Program](#)
- PHYS 260A - Intermediate Physics Laboratory 1 [View Program](#)
- PHYS 232L - Measurement Laboratory [View Program](#)
- PHYS 260L - Intermediate Physics Laboratory [View Program](#)

H-Physics & Astronomy - Physics and Astronomy (Bachelor of Science - Honours)

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Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-06-11

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

No,

Rationale and Background for Change(s)

All physics plans are being changed to permit more flexibility in course selection for students and reduce units for degree requirements. The rationale for changes reflects the broader revision of all physics-based plans:

- Rising enrolment (approx. 200 students per year) has increased the diversity of student preparation and goals.
- Many students enter with less high-school preparation than in the past.
- Plans were redesigned to:
 - Reduce the number of required units to 21.0
 - Ensure strong introductory foundations in first three terms
 - Provide flexibility in selecting core courses in third year (introduce pick four from a list of six, rather than require all six)
 - Challenge strong students through Advanced Physics Option.
 - Better clarify content taught in PHYS courses.
 - Increase diversity of fourth year courses
- These goals were achieved by modest adjustments to some courses, retiring or merging others, and introducing a small number of new courses to minimally effect teaching tasks.

For the **Physics & Astronomy** plan, which is closely aligned with the Honours Physics plan, we have the following changes:

1. Reduce total units from 21.75 --> 21.0
 1. Core: 18.25 --> 17.5
2. Course adjustments to facilitate reduced units and improved flexibility:
 1. Remove PHYS 124, allowing PHYS 122 to split into PHYS 122 + PHYS 223
 2. Move PHYS 275 (Planets) into core requirements (was "pick 2 of 4" and now "pick 1 of 3" for remaining courses)
 3. Remove 0.25 unit 300/400-level lab requirement (from a "pick 1 of 5" list of 0.25 unit labs
 4. Introduce PHYS 357 (condensed version of PHYS 358 Thermal Physics + PHYS 359 Statistical Mechanics), with opportunity to learn advanced stat mech in PHYS 457 (new)
3. To improve selection/flexibility of PHYS elective courses, we removed the following from core requirements (PHYS 256, 334, 342, 358, 359, 363) and created a new "pick 4 of the following" requirements (PHYS 334, 342, 356 [old 256], 363, 365, 376 [new Relativistic Physics course]).

Consultations (Departmental)

Consultation Paragraph:

As part of the curriculum change process for the affected physics programs and courses, the Department of Physics & Astronomy engaged in a series of structured consultations with departmental leadership, Associate Chairs Undergraduate Studies, Associate Deans Undergraduate, and relevant Directors and steering committees across many faculties and departments throughout UWaterloo. These consultations ensured transparency, alignment across units, and opportunities for everyone to provide feedback prior to formal submission in Kuali. A chronological order of consultations in Spring 2025 and Fall 2025 are provided below:

- June 2, 2025: Consulted with the Materials & Nanosciences (MNS) Steering Committee regarding proposed curriculum changes affecting MNS course offerings

- June 16, 2025: Curriculum strategy meeting with Chairs of Applied Math and Physics to discuss directions for the Math Phys program
- June 17, 2025: Consultation for Math Phys program changes (ACUGs, Chairs and ADUs) to refine program revisions and confirm cross-faculty alignment
- August 13, 2025: Follow-up consultation with Applied Mathematics to confirm remaining issues requiring resolution for both Math Phys plans
- August 26, 2025: Consulted with all Associate Chairs and ADUs of affected departments/faculties via a formal email notice, providing a general consultation template and a summarized Word document outlining proposed program and course changes. See attachment.
- August 29, 2025: Released proposed curriculum changes on Kuali for broader visibility and feedback from stakeholders.
- September 3, 2025: Consulted with the Chairs of Physics and Applied Mathematics regarding proposed program revisions and alignment across departments.
- September 4, 2025: Met with the Applied Mathematics Undergraduate Committee (AMATH ACUG) to discuss the Math Phys plan revisions and gather feedback.
- September 8, 2025: Meeting with Physics and Math ADUs and Chairs and ACUGs and Curriculum Chairs to finalize Math Phys program changes
- email consultations attached

Supporting Documentation

- [PhysicsCurriculumChanges_ACUGEmails20250826.docx](#)

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Department of Physics and Astronomy

Faculty

Faculty of Science

Undergraduate Credential Type

Major

Program Type

Honours

Degree

Bachelor of Science (Science)

Program/Plan Name

Physics and Astronomy (Bachelor of Science - Honours)

Systems of Study

Co-operative, Regular,

Admissions

Admissions Entry Point

Direct Entry,

Requirements Information

Invalid Combinations

Yes,

List of Invalid Combinations

Astrophysics Minor

Mathematical Physics (Bachelor of Mathematics - Honours)

Mathematical Physics (Bachelor of Science - Honours)

Physics Minor

Physics Specialization

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative overall average of 60.0%.
- A minimum cumulative Physics average of 60.0%.

Proposed

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 21 units:
 - 17.5 units of required courses, listed below.
 - 3.5 units of elective courses.
- Students must enrol in PHYS10 when it is offered.

Existing

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 21.75 units:
 - 18.25 units of required courses, listed below.
 - 3.5 units of elective courses (see Additional Constraints).
- Students must enrol in PHYS10 when it is offered.

Co-operative Education Program Requirements

For students in the co-operative system of study, see [Bachelor of Science 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 following
- Complete all the following:
 - CS114 - Principles of Computing for Science (0.50)
 - MATH127 - Calculus 1 for the Sciences (0.50)
 - MATH128 - Calculus 2 for the Sciences (0.50)
 - MATH227 - Calculus 3 for Honours Physics (0.50)
 - MATH228 - Differential Equations for Physics and Chemistry (0.50)
 - PHYS121 - Mechanics (0.50)
 - PHYS121L - Mechanics Laboratory (0.25)
 - PHYS122 - Waves, 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)
- PHYS234 - Quantum Physics 1 (0.50)
- PHYS242 - Electricity and Magnetism 1 (0.50)
- PHYS249 - Linear Algebra for Physics and Astronomy (0.50)
- PHYS260A - Intermediate Physics Laboratory 1 (0.50)
- PHYS263 - Classical Mechanics and Special Relativity (0.50)
- PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)
- PHYS270L - Astronomical Observations, Instrumentation, and Data Analysis Laboratory (0.25)
- PHYS364 - Mathematical Physics 1 (0.50)
- PHYS370L - Astronomy Laboratory 1 (0.25)
- PHYS375 - Stars (0.50)
- PHYS474 - Galaxies (0.50)
- PHYS475 - Cosmology (0.50)
- **Course Not Found**
- **Course Not Found**
- PHYS275 - Planets (0.50)
-
- Complete 1 of the following:
 - AMATH475 - Introduction to General Relativity (0.50)
 - PHYS349 - Advanced Computational Physics (0.50)
 - PHYS476 - Introduction to General Relativity (0.50)
-
- Complete 1 of the following:
 - COMMST193 - Communication in the Sciences (0.50)
 - ENGL193 - Communication in the Sciences (0.50)
-
- **Complete 4 of the following:**
 - PHYS334 - Quantum Physics 2 (0.50)
 - PHYS342 - Electricity and Magnetism 2 (0.50)
 - **Course Not Found**
 - PHYS363 - Intermediate Classical Mechanics (0.50)
 - **PHYS365 - Mathematical Physics 2 (0.50)**
 - **Course Not Found**
-
- Complete all of the following
 - Complete 1.25 units of courses from the following list
 - Choose any of the following:
 - BIOL110 - Biodiversity, Biomes, and Evolution (0.50)
 - BIOL130 - Introductory Cell Biology (0.50)
 - BIOL130L - Cell Biology Laboratory (0.25)
 - BIOL150 - Organismal and Evolutionary Ecology (0.50)
 - BIOL165 - Diversity of Life (0.50)
 - BIOL201 - Human Anatomy (0.50)
 - BIOL211 - Introductory Vertebrate Zoology (0.50)
 - BIOL220 - Introduction to Plant Structure and Function (0.50)
 - BIOL239 - Genetics (0.50)
 - BIOL240 - Fundamentals of Microbiology (0.50)
 - BIOL240L - Microbiology Laboratory (0.25)
 - BIOL241 - Introduction to Applied Microbiology (0.50)
 - BIOL251 - Fundamentals of Ecology (0.50)
 - BIOL273 - Principles of Human Physiology 1 (0.50)
 - 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)
 - EARTH121 - Introductory Earth Sciences (0.50)
 - EARTH121L - Introductory Earth Sciences Laboratory (0.25)
 - EARTH122 - Introductory Environmental Sciences (0.50)
 - EARTH122L - Introductory Environmental Sciences Laboratory (0.25)
-
- Complete 1.0 unit additional PHYS courses, any level
 - Complete 1 additional PHYS lecture course (0.5 unit) at the 400-level (exclusive of PHYS437A and PHYS437B)
 - ~~PHYS124 - Modern Physics (0.50)~~

- ~~PHYS256 – Geometrical and Physical Optics (0.50)~~
- ~~PHYS358 – Thermal Physics (0.50)~~
- ~~PHYS359 – Statistical Mechanics (0.50)~~
- ~~Complete 2 of the following:~~
- ~~PHYS360A – Modern Physics Laboratory 1 (0.25)~~
- ~~PHYS360B – Modern Physics Laboratory 2 (0.25)~~
- ~~PHYS391L – Electronics Laboratory (0.25)~~
- ~~PHYS460A – Advanced Laboratory 1 (0.25)~~
- ~~PHYS460B – Advanced Laboratory 2 (0.25)~~

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. For the 3.5 units of elective courses, students may use a maximum of 1.5 units of laboratory courses and a maximum of 3.0 units of SCI courses.

Notes

- See list of [academic advisors](#).
- See Faculty of Science for [recommended course sequences](#).

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 Science

Dependencies

Prerequisites

- PHYS 490 - Special Topics in Physics

[View Program](#)

- PHYS 364 - Mathematical Physics 1
- PHYS 365 - Mathematical Physics 2
- PHYS 437A - Research Project
- PHYS 175L - Introduction to the Universe Laboratory
- PHYS 360A - Modern Physics Laboratory 1
- PHYS 260A - Intermediate Physics Laboratory 1
- PHYS 260L - Intermediate Physics Laboratory

- [View Program](#)

H-Mathematical Physics (BSc) - Mathematical Physics (Bachelor of Science - Honours)

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Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-07-25

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

No,

Rationale and Background for Change(s)

All physics plans are being changed to permit more flexibility in course selection for students and reduce units for degree requirements. The rationale for changes reflects the broader revision of all physics-based plans:

- Rising enrolment (approx. 200 students per year) has increased the diversity of student preparation and goals.
- Many students enter with less high-school preparation than in the past.
- Plans were redesigned to:
 - Reduce the number of required units to 21.0
 - Ensure strong introductory foundations in first three terms
 - Provide flexibility in selecting core courses in third year (introduce pick four from a list of six, rather than require all six)
 - Challenge strong students through Advanced Physics Option.
 - Better clarify content taught in PHYS courses.
 - Increase diversity of fourth year courses
- These goals were achieved by modest adjustments to some courses, retiring or merging others, and introducing a small number of new courses to minimally effect teaching tasks.

For the **Mathematical Physics** plan, we have the following changes:

1. Update to transfer/declaration requirements: students transferring into Mathematical Physics who already have MATH 127 (or MATH 127 and MATH 128) with $\geq 80\%$ will be accepted as having satisfied MATH 137 (or MATH 137 and MATH 138), respectively
2. No change to overall unit count (20.75 units), but core vs. electives rebalanced for greater flexibility:

- Core: 18.25 → 16.25 units
 - Electives: 2.5 → 4.5 units
3. Course adjustments to facilitate reduced units and improved flexibility:
- Remove AMATH 351 (a course that has content moved into AMATH 250/251 which our students already take)
 - Remove PHYS 124; add PHYS 223 (from PHYS 122 split)
 - Add PHYS 357 (condensed PHYS 358 Thermodynamics + PHYS 359 Statistical Mechanics), with PHYS 457 as the advanced option
 - Add PHYS 376 (Relativistic Physics) as core
 - Add PHYS 334 as core (replacing AMATH 373 option, since AMATH 373 is no longer an antirequisite)
4. Elective flexibility improved:
- Physics elective pool revised:
 - Removed AMATH 456 (Calculus of Variations), AMATH 473/PHYS 454 (Quantum Theory 2).
 - Added PHYS 436 (Condensed Matter Physics), PHYS 457 (Advanced Statistical Mechanics), PHYS 464 (Group Theory for Physicists).
 - Requirement: complete 3 of 8 electives from this revised list.
5. Removed AMATH/PHYS upper-year breadth requirement to allow students to pursue existing or new microcredentials or other elective opportunities in their areas of interest.

Consultations (Departmental)

Consultation Paragraph:

As part of the curriculum change process for the affected physics programs and courses, the Department of Physics & Astronomy engaged in a series of structured consultations with departmental leadership, Associate Chairs Undergraduate Studies, Associate Deans Undergraduate, and relevant Directors and steering committees across many faculties and departments throughout UWaterloo. These consultations ensured transparency, alignment across units, and opportunities for everyone to provide feedback prior to formal submission in Kuali. A chronological order of consultations in Spring 2025 and Fall 2025 are provided below:

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Supporting Documentation

- [PhysicsCurriculumChanges_ACUGEmails20250826.docx](#)

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Department of Physics and Astronomy

Faculty

Faculty of Science

Undergraduate Credential Type

Major

Program Type

Honours

Degree

Bachelor of Science (Science)

Program/Plan Name

Mathematical Physics (Bachelor of Science - Honours)

Systems of Study

Co-operative, Regular,

Admissions

Admissions Entry Point

Both,

Proposed

Declaration Requirements

- Students transferring into Mathematical Physics from another plan, already having MATH127 (or MATH 27 and MATH128) with 80% or higher, will be accepted as having satisfied the MATH137 (or MATH137 and MATH138) requirement, respectively.
- The transfer requires minimum cumulative Physics and Mathematics averages of 65.0%, and a minimum cumulative overall average of 60.0%.

Existing

Declaration Requirements

Students can transfer into Year Two from Honours Physics if they have:

- grades of 80.0% or higher in MATH114, MATH127, and MATH128; and
- a minimum cumulative Physics average of 65%.

Requirements Information

Invalid Combinations

Yes,

List of Invalid Combinations

Mathematical Physics (Bachelor of Mathematics - Honours)

Physics (Bachelor of Science - Honours)

Physics Minor

Physics and Astronomy (Bachelor of Science - Honours)

Physics Specialization

Applied Mathematics Minor

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative overall average of 60.0%.
- A minimum cumulative Mathematics and Physics average of 65.0%.

Proposed

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 20.75 units:
 - 16.25 units of required courses, listed below.
 - 4.5 units of elective courses (see Additional Constraints).
- Students must enrol in PHYS10 when it is offered.

Existing

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 20.75 units:
 - 18.25 units of required courses, listed below.
 - 2.5 units of elective courses (see Additional Constraints).
- Students must enrol in PHYS10 when it is offered.

Co-operative Education Program Requirements

For students in the co-operative system of study, see [Bachelor of Science 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 following
- Complete all the following:
- AMATH231 - Calculus 4 (0.50)
- AMATH250 - Introduction to Differential Equations (0.50)
- AMATH353 - Partial Differential Equations 1 (0.50)
- CS114 - Principles of Computing for Science (0.50)
- MATH135 - Algebra for Honours Mathematics (0.50)
- MATH136 - Linear Algebra 1 for Honours Mathematics (0.50)
- MATH137 - Calculus 1 for Honours Mathematics (0.50)
- MATH138 - Calculus 2 for Honours Mathematics (0.50)
- MATH235 - Linear Algebra 2 for Honours Mathematics (0.50)
- MATH237 - Calculus 3 for Honours Mathematics (0.50)
- PHYS121 - Mechanics (0.50)
- PHYS121L - Mechanics Laboratory (0.25)
- PHYS122 - Waves, Electricity and Magnetism (0.50)
- PHYS122L - Waves, Electricity and Magnetism Laboratory (0.25)
- PHYS234 - Quantum Physics 1 (0.50)
- PHYS242 - Electricity and Magnetism 1 (0.50)
- PHYS263 - Classical Mechanics and Special Relativity (0.50)
- PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)
- PHYS342 - Electricity and Magnetism 2 (0.50)
- PHYS363 - Intermediate Classical Mechanics (0.50)
- PHYS434 - Quantum Physics 3 (0.50)
- PHYS442 - Electricity and Magnetism 3 (0.50)
- **Course Not Found**
- PHYS334 - Quantum Physics 2 (0.50)
- **Course Not Found**
- **Course Not Found**
-
- Complete 1 of the following:
- AMATH332 - Applied Complex Analysis (0.50)
- PMATH332 - Applied Complex Analysis (0.50)
-
- Complete 3 of the following:
- AMATH361 - Continuum Mechanics (0.50)
- AMATH463 - Fluid Mechanics (0.50)
- AMATH475 - Introduction to General Relativity (0.50)
- PHYS444 - Introduction to Particle Physics (0.50)
- PHYS476 - Introduction to General Relativity (0.50)
- **Course Not Found**
- **Course Not Found**
- **Course Not Found**
-
- Complete all of the following
- Complete 1.25 units of courses from the following list
- Choose any of the following:
- BIOL110 - Biodiversity, Biomes, and Evolution (0.50)
- BIOL130 - Introductory Cell Biology (0.50)
- BIOL130L - Cell Biology Laboratory (0.25)
- BIOL150 - Organismal and Evolutionary Ecology (0.50)
- BIOL165 - Diversity of Life (0.50)
- BIOL201 - Human Anatomy (0.50)
- BIOL211 - Introductory Vertebrate Zoology (0.50)
- BIOL220 - Introduction to Plant Structure and Function (0.50)
- BIOL239 - Genetics (0.50)
- BIOL240 - Fundamentals of Microbiology (0.50)
- BIOL240L - Microbiology Laboratory (0.25)
- BIOL241 - Introduction to Applied Microbiology (0.50)
- BIOL251 - Fundamentals of Ecology (0.50)

- BIOL273 - Principles of Human Physiology 1 (0.50)
- 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)
- EARTH121 - Introductory Earth Sciences (0.50)
- EARTH121L - Introductory Earth Sciences Laboratory (0.25)
- EARTH122 - Introductory Environmental Sciences (0.50)
- EARTH122L - Introductory Environmental Sciences Laboratory (0.25)
-
- Complete 1 of the following:
- COMMST193 - Communication in the Sciences (0.50)
- ENGL193 - Communication in the Sciences (0.50)
- ~~AMATH351 - Ordinary Differential Equations (0.50)~~
- ~~PHYS124 - Modern Physics (0.50)~~
- ~~PHYS358 - Thermal Physics (0.50)~~
- ~~PHYS359 - Statistical Mechanics (0.50)~~
- ~~AMATH456 - Calculus of Variations (0.50)~~
- ~~AMATH473 - Quantum Theory 2 (0.50)~~
- ~~PHYS454 - Quantum Theory 2 (0.50)~~
- ~~AMATH373 - Quantum Theory 1 (0.50)~~
- ~~Complete 1.5 units of AMATH or PHYS lecture courses at the 300-level or above~~

Course Lists

Required Courses

- No Rules

Are there cross-listed courses listed in requirements?

Yes,

Cross-Listings Options

All cross-listings to be displayed,

Proposed

Additional Constraints

1. Students may only complete one course from any cross-listed set.
2. For the 4.5 units of elective courses, students may use a maximum of 1.5 units of laboratory courses.
3. Students may substitute advanced-level versions of some of the required Mathematics courses with permission of their academic advisor.

Existing

Additional Constraints

1. Students may only complete one course from any cross-listed set.
2. For the 2.5 units of elective courses, students may use a maximum of 1.5 units of laboratory courses.

Notes

- See list of [academic advisors](#).
- See Faculty of Science for [recommended course sequences](#).

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 Science

Dependencies

Prerequisites

- PHYS 490 - Special Topics in Physics [View Program](#)
- PHYS 437A - Research Project [View Program](#)
- MATH 135 - Algebra for Honours Mathematics [View Program](#)
- MATH 136 - Linear Algebra 1 for Honours Mathematics [View Program](#)
- PHYS 360A - Modern Physics Laboratory 1 [View Program](#)
- PHYS 260A - Intermediate Physics Laboratory 1 [View Program](#)
- MATH 235 - Linear Algebra 2 for Honours Mathematics [View Program](#)
- STAT 230 - Probability [View Program](#)

- STAT 231 - Statistics
- MATH 237 - Calculus 3 for Honours Mathematics

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

H-Biological & Medical Physics - Biological and Medical Physics (Bachelor of Science - Honours)

[Top](#)

Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-07-25

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

Yes,

Invalid Combinations Consultations

The biophysics minor is added as incompatible with this major with the changes that focus biophysics foundations.

Change to Learning Outcomes

No,

Rationale and Background for Change(s)

All physics plans are being changed to permit more flexibility in course selection for students and reduce units for degree requirements. The rationale for changes reflects the broader revision of all physics-based plans:

- Rising enrolment (approx. 200 students per year) has increased the diversity of student preparation and goals.
- Many students enter with less high-school preparation than in the past.
- Plans were redesigned to:
 - Reduce the number of required units to 21.0
 - Ensure strong introductory foundations in first three terms
 - Provide flexibility in selecting core courses in third year (introduce pick four from a list of six, rather than require all six)
 - Challenge strong students through Advanced Physics Option.
 - Better clarify content taught in PHYS courses.
 - Increase diversity of fourth year courses
- These goals were achieved by modest adjustments to some courses, retiring or merging others, and introducing a small number of new courses to minimally effect teaching tasks.

For the **Biological & Medical Physics plan**, which will now closely align with the Honours Physics plan with a stronger focus on biophysics course and more electives for flexibility in degree customization, we have the following changes:

1. Reduce units from 21.25 --> 21.0
 - Core: 14.25 --> 13.0
 - Electives: 7.0 --> 8.0

- Within electives: BIOL/CHEM electives reduced 1.5 --> 1.0; free electives increased 3.5 --> 5.0 (any subject).
2. Course adjustments to facilitate reduced units and improved flexibility:
- Remove CHEM 123L, CHEM 237, CHEM 237L, CHEM 266, CHEM 266L in favour of more BIOL and PHYS courses, strengthening biophysics foundations and allow for more electives outside of BIOL and PHYS. Many students can still take CHEM or EARTH courses to pursue a micro-credential in these areas to customize their degree.
 - Add PHYS 223 as a requirement (since PHYS 122 is now split into PHYS 122 + 223).
 - Replace terminal PHYS 233 (non linear-algebra based quantum) with core PHYS 234 (Quantum Physics) to provide access to upper-year PHYS courses.
 - Require PHYS 249 (Linear Algebra) to support PHYS 234.
 - Require PHYS 267 (Statistics) instead of PHYS 225 (content overlap; PHYS 225 cancelled).
 - PHYS 256 renumbered to PHYS 356 (Optics 1).
 - Introduce PHYS 357 (condensed version of PHYS 358 Thermal Physics + PHYS 359 Statistical Mechanics), with opportunity to learn advanced stat mech in PHYS 457 (new)
 - Merge PHYS 395 + 396 into PHYS 480 (Advanced Topics in Biophysics), offered annually (instead of every other year).
3. Elective structure revised for greater flexibility:
- Remove PHYS 124, PHYS 249, PHYS 267, 3PHYS 59 and STAT 202 from “complete 4 of” list (now either retired or in core).
 - Added PHYS 457 (new) as a possible elective.
 - Update BIOL/CHEM elective list to remove CHEM 267/267L making it a BIOL elective list only (no longer require prerequisites as core).
 - Increase free electives to 5.0 units, allowing students to tailor their program and add micro-credentials.
4. The biophysics minor is added as incompatible incompatible with this updated plan as there is a lot of overlapping options, especially with the changes to focus strengthening in biophysics foundations. They will be mutually incompatible.

Consultations (Departmental)

Consultation Paragraph:

As part of the curriculum change process for the affected physics programs and courses, the Department of Physics & Astronomy engaged in a series of structured consultations with departmental leadership, Associate Chairs Undergraduate Studies, Associate Deans Undergraduate, and relevant Directors and steering committees across many faculties and departments throughout UWaterloo. These consultations ensured transparency, alignment across units, and opportunities for everyone to provide feedback prior to formal submission in Kuali. A chronological order of consultations in Spring 2025 and Fall 2025 are provided below:

- June 2, 2025: Consulted with the Materials & Nanosciences (MNS) Steering Committee regarding proposed curriculum changes affecting MNS course offerings
- June 16, 2025: Curriculum strategy meeting with Chairs of Applied Math and Physics to discuss directions for the Math Phys program

- June 17, 2025: Consultation for Math Phys program changes (ACUGs, Chairs and ADUs) to refine program revisions and confirm cross-faculty alignment
- August 13, 2025: Follow-up consultation with Applied Mathematics to confirm remaining issues requiring resolution for both Math Phys plans
- August 26, 2025: Consulted with all Associate Chairs and ADUs of affected departments/faculties via a formal email notice, providing a general consultation template and a summarized Word document outlining proposed program and course changes. See attachment.
- August 29, 2025: Released proposed curriculum changes on Quali for broader visibility and feedback from stakeholders.
- September 3, 2025: Consulted with the Chairs of Physics and Applied Mathematics regarding proposed program revisions and alignment across departments.
- September 4, 2025: Met with the Applied Mathematics Undergraduate Committee (AMATH ACUG) to discuss the Math Phys plan revisions and gather feedback.
- September 8, 2025: Meeting with Physics and Math ADUs and Chairs and ACUGs and Curriculum Chairs to finalize Math Phys program changes
- email consultations attached

Supporting Documentation

- [PhysicsCurriculumChanges_ACUGEmails20250826.docx](#)

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Department of Physics and Astronomy

Faculty

Faculty of Science

Undergraduate Credential Type

Major

Program Type

Honours

Degree

Bachelor of Science (Science)

Program/Plan Name

Biological and Medical Physics (Bachelor of Science - Honours)

Systems of Study

Co-operative, Regular,

Admissions

Admissions Entry Point

Direct Entry,

Requirements Information

Proposed

Invalid Combinations

Yes,

Existing

Invalid Combinations

No,

List of Invalid Combinations

Biophysics Minor

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative overall average of 60.0%.
- A minimum cumulative Biology average of 60.0%.
- A minimum cumulative Physics average of 60.0%.

Proposed

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 21.0 units:
 - 13.0 units of required courses, listed below.
 - 8.0 units of electives:
 - 2.0 units of PHYS electives.
 - 1.0 unit of BIOL elective.
 - 5.0 units of elective courses, with a maximum of 1.0 lab units.
- Students must enrol in PHYS10 when offered.

Existing

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 21.25 units:
 - 14.25 units of required courses, listed below.
 - 7.0 units of electives:
 - 2.0 units of PHYS electives.
 - 1.5 units of BIOL/CHEM electives.
 - 3.5 units of elective courses, with a maximum of 1.0 lab units.
- Students must enrol in PHYS10 when offered.

Co-operative Education Program Requirements

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

Course Requirements (units)

1. Required Courses

- Complete all the following:
 - BIOL130 - Introductory Cell Biology (0.50)
 - BIOL130L - Cell Biology Laboratory (0.25)
 - CHEM120 - General Chemistry 1 (0.50)
 - CHEM120L - General Chemistry Laboratory 1 (0.25)
 - CHEM123 - General Chemistry 2 (0.50)
 - CS114 - Principles of Computing for Science (0.50)

- MATH127 - Calculus 1 for the Sciences (0.50)
- MATH128 - Calculus 2 for the Sciences (0.50)
- MATH227 - Calculus 3 for Honours Physics (0.50)
- MATH228 - Differential Equations for Physics and Chemistry (0.50)
- PHYS121 - Mechanics (0.50)
- PHYS121L - Mechanics Laboratory (0.25)
- PHYS122 - Waves, Electricity and Magnetism (0.50)
- PHYS122L - Waves, Electricity and Magnetism Laboratory (0.25)
- PHYS242 - Electricity and Magnetism 1 (0.50)
- PHYS260A - Intermediate Physics Laboratory 1 (0.50)
- PHYS380 - Molecular and Cellular Biophysics (0.50)
- PHYS383 - Medical Physics (0.50)
- **PHYS223 - Waves (0.50)**
- **PHYS234 - Quantum Physics 1 (0.50)**
- **PHYS249 - Linear Algebra for Physics and Astronomy (0.50)**
- **PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)**
- **PHYS356 - Optics 1 (0.50)**
- **PHYS357 - Statistical Mechanics and Thermodynamics (0.50)**
- **PHYS480 - Advanced Topics in Biophysics (0.50)**
- ~~CHEM123L - General Chemistry Laboratory 2 (0.25)~~
- ~~CHEM237 - Introductory Biochemistry (0.50)~~
- ~~CHEM237L - Introductory Biochemistry Laboratory (0.25)~~
- ~~CHEM266 - Basic Organic Chemistry 1 (0.50)~~
- ~~CHEM266L - Organic Chemistry Laboratory (0.25)~~
- ~~PHYS225 - Modelling Biological Physics (0.50)~~
- ~~PHYS256 - Geometrical and Physical Optics (0.50)~~
- ~~PHYS358 - Thermal Physics (0.50)~~
- ~~PHYS395 - Biophysics of Therapeutic Methods (0.50)~~
- ~~PHYS396 - Biophysics of Imaging (0.50)~~
- Complete 1 of the following:
 - BIOL239 - Genetics (0.50)
 - BIOL273 - Principles of Human Physiology 1 (0.50)
- Complete 1 of the following:
 - COMMST193 - Communication in the Sciences (0.50)
 - ENGL193 - Communication in the Sciences (0.50)
- Complete 1 of the following:
 - **BIOL280 - Introduction to Biophysics (0.50)**
 - **PHYS280 - Introduction to Biophysics (0.50)**
 - ~~PHYS233 - Introduction to Quantum Mechanics (0.50)~~
 - ~~PHYS234 - Quantum Physics 1 (0.50)~~

Grand Total Units:9.25

Course Requirements (no units)

1. Elective Courses

-
- Complete all of the following
- Complete 4 of the following:
 - PHYS263 - Classical Mechanics and Special Relativity (0.50)
 - PHYS334 - Quantum Physics 2 (0.50)
 - PHYS335 - Condensed Matter Physics (0.50)
 - PHYS342 - Electricity and Magnetism 2 (0.50)
 - PHYS349 - Advanced Computational Physics (0.50)
 - PHYS483 - Advanced Therapeutic Concepts in Oncology and Medical Physics (0.50)
- **Course Not Found**
-
- Complete all of the following
- **Complete 1.0 unit from the following list of courses**
- Choose any of the following:
 - AMATH382 - Computational Modelling of Cellular Systems (0.50)

- BIOL201 - Human Anatomy (0.50)
- BIOL239 - Genetics (0.50)
- BIOL240 - Fundamentals of Microbiology (0.50)
- BIOL240L - Microbiology Laboratory (0.25)
- BIOL266 - Introduction to Computational Biology (0.50)
- BIOL273 - Principles of Human Physiology 1 (0.50)
- BIOL308 - Principles of Molecular Biology (0.50)
- BIOL373 - Principles of Human Physiology 2 (0.50)
- BIOL373L - Human Physiology Laboratory (0.25)
- BIOL382 - Computational Modelling of Cellular Systems (0.50)
-
- **Complete 5.0 units of elective courses, with a maximum of 1.0 lab units**
- ~~PHYS124 - Modern Physics (0.50)~~
- ~~PHYS249 - Linear Algebra for Physics and Astronomy (0.50)~~
- ~~PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)~~
- ~~PHYS359 - Statistical Mechanics (0.50)~~
- ~~STAT202 - Introductory Statistics for Scientists (0.50)~~
- ~~Complete 1.5 units from the following list of courses~~
- ~~CHEM267 - Basic Organic Chemistry 2 (0.50)~~
- ~~CHEM267L - Organic Chemistry Laboratory (0.25)~~
- ~~Complete 3.5 units of elective courses, with a maximum of 1.0 lab units~~

Course Lists

Required Courses

- No Rules

Are there cross-listed courses listed in requirements?

Yes,

Cross-Listings Options

All cross-listings to be displayed,

Proposed

Additional Constraints

1. Students may only complete one course from any cross-listed set.
2. BIOL239 or BIOL273 may each count only towards one requirement.
3. At least 1.0 elective lecture unit must be in BIOL or PHYS at the 400-level.

Existing

Additional Constraints

1. Students may only complete one course from any cross-listed set.
2. Only one of PHYS267 or STAT202 may be used to fulfil the PHYS electives requirement.
3. BIOL239 or BIOL273 may each count only towards one requirement.
4. At least 1.0 elective lecture unit must be in BIOL or PHYS at the 400-level.

Notes

- See list of [academic advisors](#).
- See Faculty of Science for [recommended course sequences](#).

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 Science

Dependencies

Prerequisites

- PHYS 437A - Research Project
- PHYS 260A - Intermediate Physics Laboratory 1

[View Program](#)

[View Program](#)

Astrophysics Minor - Astrophysics Minor

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Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2023

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-06-11

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)

Changes to the first year core courses in physics require mirrored changes to be made to the minors.

For the **Astrophysics Minor**:

1. Added PHYS 223 due to split of PHYS 122 into PHYS 122 + PHYS 223.
2. Reduced the PHYS electives from 2.0 to 1.5 units.

Consultations (Departmental)

n/a

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Department of Physics and Astronomy

Faculty

Faculty of Science

Undergraduate Credential Type

Minor

Program/Plan Name

Astrophysics Minor

Admissions

Admissions Entry Point

Declare Plan,

Declaration Audience

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

Declaration Requirements

- Before declaring this academic plan, see [invalid credential combinations](#).

Requirements Information

Invalid Combinations

Yes,

List of Invalid Combinations

Mathematical Physics (Bachelor of Mathematics - Honours)

Physics and Astronomy (Bachelor of Science - Honours)

Physics Minor Physics Specialization

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative Physics average of 60.0%.

Graduation Requirements

- Complete a total of 5.0 units.

Course Requirements (units)

Required Courses

- 0 Units to Complete
- No Rules

Course Requirements (no units)

1. Required Courses

-
- Complete all of the following
- Complete all the following:
 - PHYS121 - Mechanics (0.50)
 - PHYS122 - Waves, Electricity and Magnetism (0.50)
 - **Course Not Found**
-
- Complete 4 of the following:
 - AMATH475 - Introduction to General Relativity (0.50)
 - PHYS175 - Introduction to the Universe (0.50)
 - PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)
 - PHYS275 - Planets (0.50)
 - PHYS375 - Stars (0.50)
 - PHYS474 - Galaxies (0.50)
 - PHYS475 - Cosmology (0.50)
 - PHYS476 - Introduction to General Relativity (0.50)
-
- **Complete 1.5 units of additional PHYS courses.**
- ~~Complete 2.0 units of additional PHYS courses.~~

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. At least 1.5 PHYS lecture units must be at the 300-level or above.
2. Students may use no more than 1.0 PHYS lab unit.

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 Science

Dependencies

There are no dependencies

Biophysics Minor - Biophysics Minor

[Top](#)

Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2024

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-06-11

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

Yes,

Invalid Combinations Consultations

Changes to the Biological and Medical Physics major, to give it a biophysics focus, makes it incompatible with the Biophysics Minor.

Change to Learning Outcomes

No,

Rationale and Background for Change(s)

Changes to the first year core courses in physics require mirrored changes to be made to the minors.

For the **Biophysics Minor**:

1. Added PHYS 223 due to split of PHYS 122 into PHYS 122 + PHYS 223.
2. Condensed PHYS 395 and PHYS 396 into PHYS 480 (offered each year instead of every other year).
3. Updated electives based on retired/revised courses in the Honours Physics plans.

In addition, this minor will be incompatible with the updated Biological and Medical Physics major as there is a lot of overlapping options, especially with the changes to the latter focused on strengthening biophysics foundations.

Consultations (Departmental)

n/a

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Department of Physics and Astronomy

Faculty

Faculty of Science

Undergraduate Credential Type

Minor

Program/Plan Name

Biophysics Minor

Admissions

Admissions Entry Point

Declare Plan,

Declaration Audience

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

Declaration Requirements

- Before declaring this academic plan, see [invalid credential combinations](#).

Requirements Information

Invalid Combinations

Yes,

Proposed

List of Invalid Combinations

Biology Minor Biology Specialization

Mathematical Physics (Bachelor of Mathematics - Honours)

Physics Minor Physics Specialization

Biological and Medical Physics (Bachelor of Science - Honours)

Existing

List of Invalid Combinations

Biology Minor Biology Specialization

Mathematical Physics (Bachelor of Mathematics - Honours)

Physics Minor Physics Specialization

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative Biology average of 60.0%.
- A minimum cumulative Physics average of 60.0%.

Graduation Requirements

- Complete a total of 5.0 units.

Course Requirements (units)

1. Required Courses
 - Complete all the following:
 - BIOL130 - Introductory Cell Biology (0.50)
 - BIOL239 - Genetics (0.50)

- BIOL308 - Principles of Molecular Biology (0.50)
- PHYS121 - Mechanics (0.50)
- PHYS121L - Mechanics Laboratory (0.25)
- PHYS122 - Waves, Electricity and Magnetism (0.50)
- PHYS122L - Waves, Electricity and Magnetism Laboratory (0.25)
- **PHYS223 - Waves (0.50)**
- Complete 2 of the following:
 - BIOL280 - Introduction to Biophysics (0.50)
 - PHYS280 - Introduction to Biophysics (0.50)
 - PHYS380 - Molecular and Cellular Biophysics (0.50)
 - PHYS383 - Medical Physics (0.50)
 - PHYS483 - Advanced Therapeutic Concepts in Oncology and Medical Physics (0.50)
 - **PHYS480 - Advanced Topics in Biophysics (0.50)**
 - ~~PHYS395 - Biophysics of Therapeutic Methods (0.50)~~
 - ~~PHYS396 - Biophysics of Imaging (0.50)~~
- Complete 1 of the following:
 - PHYS234 - Quantum Physics 1 (0.50)
 - PHYS242 - Electricity and Magnetism 1 (0.50)
 - PHYS263 - Classical Mechanics and Special Relativity (0.50)
 - STAT202 - Introductory Statistics for Scientists (0.50)
 - **PHYS356 - Optics 1 (0.50)**
 - **PHYS357 - Statistical Mechanics and Thermodynamics (0.50)**
 - **PHYS249 - Linear Algebra for Physics and Astronomy (0.50)**
 - **PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)**
 - ~~PHYS225 - Modelling Biological Physics (0.50)~~
 - ~~PHYS233 - Introduction to Quantum Mechanics (0.50)~~
 - ~~PHYS256 - Geometrical and Physical Optics (0.50)~~
 - ~~PHYS358 - Thermal Physics (0.50)~~
 - ~~PHYS359 - Statistical Mechanics (0.50)~~

Grand Total Units:7

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. At least 1.5 BIOL or PHYS lecture units must be at the 300-level or above.

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 Science

Dependencies

Prerequisites

- PHYS 260A - Intermediate Physics Laboratory 1

[View Program](#)

Physics Minor - Physics Minor

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Effective Date and Career

Career
Undergraduate,

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change,

Academic Unit Approval
2025-06-11

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

Yes,

Invalid Combinations Consultations

This minor can't be combined with the new Advanced Physics Option.

Change to Learning Outcomes

No,

Rationale and Background for Change(s)

Changes to the first year core courses in physics require mirrored changes to be made to the minors.

For the **Physics Minor**:

1. Added PHYS 223 due to split of PHYS 122 into PHYS 122 + PHYS 223.
2. Updated electives based on retired/revised courses in Honours Physics plans.
3. Added the new Advanced Physics Option as invalid combination to this minor due to overlapping courses.

Consultations (Departmental)

n/a

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Department of Physics and Astronomy

Faculty

Faculty of Science

Undergraduate Credential Type

Minor

Program/Plan Name

Physics Minor

Admissions

Admissions Entry Point

Declare Plan,

Declaration Audience

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

Declaration Requirements

- Before declaring this academic plan, see [invalid credential combinations](#).

Requirements Information

Invalid Combinations

Yes,

Proposed

List of Invalid Combinations

Astrophysics Minor Biophysics Minor

Materials and Nanosciences (Bachelor of Science - Honours)

Mathematical Physics (Bachelor of Mathematics - Honours)

Mathematical Physics (Bachelor of Science - Honours)

Physics and Astronomy (Bachelor of Science - Honours)

Physics Specialization

Advanced Physics Option

Existing

List of Invalid Combinations

Astrophysics Minor Biophysics Minor

Materials and Nanosciences (Bachelor of Science - Honours)

Mathematical Physics (Bachelor of Mathematics - Honours)

Mathematical Physics (Bachelor of Science - Honours)

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative Physics average of 60.0%.

Graduation Requirements

- Complete a total of 5.0 units:
 - 3.0 units of required PHYS courses, listed below.
 - 2.0 units additional PHYS courses.

Course Requirements (units)

1. Required Courses

- Complete all the following:
 - PHYS121 - Mechanics (0.50)
 - PHYS122 - Waves, Electricity and Magnetism (0.50)
 - **PHYS223 - Waves (0.50)**
 - ~~PHYS124 - Modern Physics (0.50)~~
- Complete 3 of the following:
 - PHYS234 - Quantum Physics 1 (0.50)
 - PHYS242 - Electricity and Magnetism 1 (0.50)
 - PHYS249 - Linear Algebra for Physics and Astronomy (0.50)
 - PHYS263 - Classical Mechanics and Special Relativity (0.50)
 - PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)
 - PHYS334 - Quantum Physics 2 (0.50)
 - PHYS342 - Electricity and Magnetism 2 (0.50)
 - PHYS363 - Intermediate Classical Mechanics (0.50)
 - PHYS364 - Mathematical Physics 1 (0.50)
 - PHYS365 - Mathematical Physics 2 (0.50)
 - **PHYS356 - Optics 1 (0.50)**
 - **PHYS357 - Statistical Mechanics and Thermodynamics (0.50)**
 - **PHYS376 - Relativistic Physics (0.50)**
 - ~~PHYS256 - Geometrical and Physical Optics (0.50)~~
 - ~~PHYS358 - Thermal Physics (0.50)~~
 - ~~PHYS359 - Statistical Mechanics (0.50)~~

Grand Total Units:6

Course Requirements (no units)

Required Courses

- No Rules

Course Lists

Required Courses

- No Rules

Are there cross-listed courses listed in requirements?

No,

Additional Constraints

1. Students must take a minimum of 1.5 units of PHYS lecture courses at the 300-level or above.
2. Students may use no more than 1.0 unit of PHYS laboratory courses towards this Minor.

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 Science

Dependencies

There are no dependencies

JH-Physics - Physics (Joint Honours)

[Top](#)

Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-06-11

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)

Changes have been made to the Honours Physics plan. These changes are being reflected in the Joint Honours plan with Physics.

1. Course adjustments to facilitate reduced units and improved flexibility:
 1. Remove PHYS 124, allowing PHYS 122 to split into PHYS 122 + PHYS 223 (added as a core requirement).
 2. Introduce PHYS 357 (condensed version of PHYS 358 Thermal Physics + PHYS 359 Statistical Mechanics), with opportunity to learn advanced stat mech in PHYS 457 (new).
2. To improve selection/flexibility of PHYS elective courses, we removed the following from core requirements (PHYS 256, 334, 342, 358, 359, 363, 365) and created a new "pick 4 of the following" requirements (PHYS 334, 342, 356 [old 256], 363, 365, 376 [new Relativistic Physics course]).

In addition, the required PHYS 360A lab which was listed again in error in a "pick 1 of" list for labs, has been removed.

Consultations (Departmental)

N/A

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Department of Physics and Astronomy

Faculty

Faculty of Science

Undergraduate Credential Type

Major

Program Type

Joint Honours

Program/Plan Name

Physics (Joint Honours)

Admissions

Admissions Entry Point

Declare Plan,

Declaration Requirements

- Before declaring this academic plan, see [invalid credential combinations](#).
- Admission into this plan requires a minimum overall average of 65% in the student's home academic plan.
- Approvals are needed to pursue a joint honours plan with Science, first by the appropriate advisor in the Science department, second by the appropriate advisor in the student's home academic unit in the non-Science faculty, and finally by the senior academic advisor in the Science Undergraduate Office. Approval is normally possible only after introductory science and mathematics courses have been completed with necessary averages, therefore the earliest that joint honours requests can be reviewed is in Year Two.

Requirements Information

Invalid Combinations

Yes,

List of Invalid Combinations

Mathematical Physics (Bachelor of Mathematics - Honours)

Mathematical Physics (Bachelor of Science - Honours)

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative Physics average of 60.0%.
- Must satisfy the major average requirement for the first major.

Proposed**Graduation Requirements**

- Complete a total of 12.75 units (see below).

Existing**Graduation Requirements**

- Complete a total of 13.75 units (see below).

Course Requirements (units)

Required Courses

- 0 Units to Complete
- No Rules

Course Requirements (no units)

1. Required Courses

- Complete all of the following
- Complete all the following:
 - CS114 - Principles of Computing for Science (0.50)
 - MATH127 - Calculus 1 for the Sciences (0.50)
 - MATH128 - Calculus 2 for the Sciences (0.50)
 - MATH227 - Calculus 3 for Honours Physics (0.50)
 - MATH228 - Differential Equations for Physics and Chemistry (0.50)
 - PHYS121 - Mechanics (0.50)
 - PHYS121L - Mechanics Laboratory (0.25)
 - PHYS122 - Waves, Electricity and Magnetism (0.50)
 - PHYS122L - Waves, Electricity and Magnetism Laboratory (0.25)
 - PHYS160L - Introductory Measurement Laboratory (0.25)
 - PHYS234 - Quantum Physics 1 (0.50)
 - PHYS242 - Electricity and Magnetism 1 (0.50)
 - PHYS249 - Linear Algebra for Physics and Astronomy (0.50)

- PHYS260A - Intermediate Physics Laboratory 1 (0.50)
- PHYS260B - Intermediate Physics Laboratory 2 (0.50)
- PHYS263 - Classical Mechanics and Special Relativity (0.50)
- PHYS360A - Modern Physics Laboratory 1 (0.25)
- PHYS364 - Mathematical Physics 1 (0.50)
- **Course Not Found**
- **Course Not Found**
-
- **Complete 4 of the following:**
- PHYS334 - Quantum Physics 2 (0.50)
- PHYS342 - Electricity and Magnetism 2 (0.50)
- **Course Not Found**
- PHYS363 - Intermediate Classical Mechanics (0.50)
- PHYS365 - Mathematical Physics 2 (0.50)
- **Course Not Found**
-
- Complete 1 of the following:
- PHYS360B - Modern Physics Laboratory 2 (0.25)
- PHYS370L - Astronomy Laboratory 1 (0.25)
- PHYS391L - Electronics Laboratory (0.25)
- PHYS460A - Advanced Laboratory 1 (0.25)
- PHYS460B - Advanced Laboratory 2 (0.25)
-
- Complete 1.5 units of PHYS courses at the 400-level
- ~~PHYS124 - Modern Physics (0.50)~~
- ~~PHYS256 - Geometrical and Physical Optics (0.50)~~
- ~~PHYS358 - Thermal Physics (0.50)~~
- ~~PHYS359 - Statistical Mechanics (0.50)~~

Course Lists

Required Courses

- No Rules

Are there cross-listed courses listed in requirements?

No,

Additional Constraints

1. No one course may fulfil more than one requirement within the major.

Notes

- Students should be aware that combining some honours plans usually requires additional academic terms of study to complete.
- Not all joint honours plans with Science may be permissible if there is an excessive amount of double counting of courses.
- Students are advised to consult with the appropriate advisors before enrolment in courses associated with the joint honours plan.

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 Science

Dependencies

Prerequisites

- PHYS 490 - Special Topics in Physics [View Program](#)
- PHYS 160L - Introductory Measurement Laboratory [View Program](#)
- PHYS 437A - Research Project [View Program](#)
- PHYS 360A - Modern Physics Laboratory 1 [View Program](#)
- PHYS 232L - Measurement Laboratory [View Program](#)
- PHYS 260L - Intermediate Physics Laboratory [View Program](#)

H-Materials & Nanosciences - Materials and Nanosciences (Bachelor of Science - Honours)

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Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Academic Unit Approval

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

No,

Rationale and Background for Change(s)

All physics plans are being updated to permit more flexibility in course selection for students and to reduce units for degree requirements. First year classes have been altered to account for changes in the preparedness level of students entering from high school, which results in cascade effects in dependencies.

For the H- Materials and Nanosciences plan (MNS), we have the following changes:

1. Remove CHEM 209, Introductory Spectroscopy and Structure, as a required course, typically sequenced in fourth year, and move it to the approved program elective list. CHEM 209 is not highly applicable for a student specializing in materials science and nanotechnology, and it is a terminal course that does not lead to other courses.
2. Remove PHYS 342, Electricity & Magnetism 2, typically sequenced in fourth year, and move it to the approved program elective list. Students already have foundational Electricity & Magnetism, and

- upper-year classes like PHYS 334, Quantum Physics 2, which are more relevant than PHYS 342 for a student specializing in materials science and nanotechnology.
3. Reduce the program electives by 0.5 unit to 2.5 for purpose of reducing overall units.
 4. Replace the PHYS 234 quantum course with the CHEM 356 quantum course, to address the addition of a new course, PHYS 223, Waves, to all physics plans, with the exception of this jointly owned MNS plan. PHYS 122 will be split into PHYS 122 and PHYS 223, and PHYS 234 will require both as prerequisites, whereas CHEM 356 will not. A sequence change will be required to sequence CHEM 356 in second year.

Consultations (Departmental)

Consultation Paragraph:

As part of the curriculum change process for the affected physics programs and courses, the Department of Physics & Astronomy engaged in a series of structured consultations with departmental leadership, Associate Chairs Undergraduate Studies, Associate Deans Undergraduate, and relevant Directors and steering committees across many faculties and departments throughout UWaterloo. These consultations ensured transparency, alignment across units, and opportunities for everyone to provide feedback prior to formal submission in Quali. A chronological order of consultations in Spring 2025 and Fall 2025 are provided below:

- June 2, 2025: Consulted with the Materials & Nanosciences (MNS) Steering Committee regarding proposed curriculum changes affecting MNS course offerings
- June 16, 2025: Curriculum strategy meeting with Chairs of Applied Math and Physics to discuss directions for the Math Phys program
- June 17, 2025: Consultation for Math Phys program changes (ACUGs, Chairs and ADUs) to refine program revisions and confirm cross-faculty alignment
- August 13, 2025: Follow-up consultation with Applied Mathematics to confirm remaining issues requiring resolution for both Math Phys plans
- August 26, 2025: Consulted with all Associate Chairs and ADUs of affected departments/faculties via a formal email notice, providing a general consultation template and a summarized Word document outlining proposed program and course changes. See attachment.
- August 29, 2025: Released proposed curriculum changes on Quali for broader visibility and feedback from stakeholders.
- September 3, 2025: Consulted with the Chairs of Physics and Applied Mathematics regarding proposed program revisions and alignment across departments.
- September 4, 2025: Met with the Applied Mathematics Undergraduate Committee (AMATH ACUG) to discuss the Math Phys plan revisions and gather feedback.
- September 8, 2025: Meeting with Physics and Math ADUs and Chairs and ACUGs and Curriculum Chairs to finalize Math Phys program changes
- email consultations attached

Supporting Documentation

- [PhysicsCurriculumChanges_ACUGEmails20250826.docx](#)

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Department of Chemistry

Faculty

Faculty of Science

**Undergraduate Credential
Type**

Major

Program Type

Honours

Degree

Bachelor of Science (Science)

Program/Plan Name

Materials and Nanosciences (Bachelor of Science - Honours)

Systems of Study

Co-operative, Regular,

Admissions**Admissions Entry Point**

Direct Entry,

Requirements Information

Invalid Combinations

Yes,

List of Invalid Combinations

Physics Minor

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative overall average of 60.0%.
- A minimum cumulative Science average of 60.0%.

Proposed

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 20.0 units:
 - 16.0 units of required courses, listed below.
 - 2.5 units of approved courses (see Additional Constraints).
 - 1.5 units of elective courses.
- Students must enrol in MNS10 when it is offered.

Existing

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 21.5 units:
 - 17.0 units of required courses, listed below.
 - 3.0 units of approved courses (see Additional Constraints).
 - 1.5 units of elective courses.
- Students must enrol in MNS10 when it is offered.

Co-operative Education Program Requirements

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

Course Requirements (units)

1. Required Courses

- Complete all the following:
 - CHEM121 - Physical and Chemical Properties of Matter (0.50)
 - CHEM121L - Chemical Reaction Laboratory 1 (0.25)
 - CHEM125 - Chemical Reactions, Equilibria and Kinetics (0.50)
 - CHEM125L - Chemical Reaction Laboratory 2 (0.25)
 - CHEM140 - Introduction to Scientific Calculations (0.50)
 - CHEM250L - Physical Chemistry Laboratory 1 (0.25)
 - CHEM254 - Introductory Chemical Thermodynamics (0.50)
 - CHEM266L - Organic Chemistry Laboratory (0.25)
 - CS114 - Principles of Computing for Science (0.50)
 - MATH127 - Calculus 1 for the Sciences (0.50)
 - MATH128 - Calculus 2 for the Sciences (0.50)
 - MATH227 - Calculus 3 for Honours Physics (0.50)
 - MATH228 - Differential Equations for Physics and Chemistry (0.50)
 - MNS101 - Materials and Nanosciences in the Modern World (0.50)
 - MNS102 - Techniques for Materials and Nanosciences (0.50)
 - MNS201L - Materials and Nanosciences Laboratory (0.50)
 - MNS211 - Chemistry and the Solid State (0.50)
 - MNS221 - Physics and the Solid State (0.50)
 - MNS321 - Electrical and Optical Properties of Materials (0.50)
 - MNS322 - Polymer Materials (0.50)
 - MNS331 - Biomaterials (0.50)
 - MNS410 - Special Topics in Solid-State Materials (0.50)
 - MNS431 - Special Topics in Nanobiomaterials (0.50)
 - PHYS121 - Mechanics (0.50)
 - PHYS121L - Mechanics Laboratory (0.25)
 - PHYS122 - Waves, Electricity and Magnetism (0.50)
 - PHYS122L - Waves, Electricity and Magnetism Laboratory (0.25)
 - PHYS242 - Electricity and Magnetism 1 (0.50)
 - PHYS249 - Linear Algebra for Physics and Astronomy (0.50)
 - PHYS260A - Intermediate Physics Laboratory 1 (0.50)
 - PHYS334 - Quantum Physics 2 (0.50)
 - **CHEM356 - Introductory Quantum Mechanics (0.50)**
 - ~~CHEM209 - Introductory Spectroscopy and Structure (0.50)~~
 - ~~PHYS234 - Quantum Physics 1 (0.50)~~
 - ~~PHYS342 - Electricity and Magnetism 2 (0.50)~~
- Complete 1 of the following:
 - COMMST193 - Communication in the Sciences (0.50)
 - ENGL193 - Communication in the Sciences (0.50)
- Complete 1 of the following:
 - CHEM264 - Organic Chemistry 1 (0.50)
 - CHEM266 - Basic Organic Chemistry 1 (0.50)
- Complete 1 of the following:
 - CHEM350 - Chemical Kinetics and Statistical Mechanics (0.50)
 - PHYS359 - Statistical Mechanics (0.50)

Grand Total Units:16

Course Requirements (no units)

Required Courses

- No Rules

Course Lists

1. Approved Courses List

-
- Choose any of the following:
- BIOL280 - Introduction to Biophysics (0.50)
- CHEM212 - Structure and Bonding (0.50)
- CHEM220 - Intro Analytical Chemistry (0.50)
- CHEM220L - Quantitative Chemical Analysis Laboratory (0.25)
- CHEM221 - Multi-Component Analysis (0.50)
- CHEM237 - Introductory Biochemistry (0.50)
- CHEM237L - Introductory Biochemistry Laboratory (0.25)
- CHEM267 - Basic Organic Chemistry 2 (0.50)
- CHEM267L - Organic Chemistry Laboratory (0.25)
- CHEM310 - Transition Element Compounds and Inorganic Materials (0.50)
- CHEM333 - Metabolism 1 (0.50)
- CHEM340 - Introductory Computational Chemistry (0.50)
- CHEM357 - Physical Biochemistry (0.50)
- CHEM400 - Special Topics in Chemistry (0.50)
- CHEM430 - Special Topics in Biochemistry (0.50)
- CHEM494A - Research Project (0.50)
- CHEM494B - Research Project (0.50)
- PHYS225 - Modeling Biological Physics (0.50)
- PHYS256 - Geometrical and Physical Optics (0.50)
- PHYS260B - Intermediate Physics Laboratory 2 (0.50)
- PHYS267 - Probability, Statistics, and Data Analysis for Physics and Astronomy (0.50)
- PHYS280 - Introduction to Biophysics (0.50)
- PHYS335 - Condensed Matter Physics (0.50)
- PHYS360A - Modern Physics Laboratory 1 (0.25)
- PHYS360B - Modern Physics Laboratory 2 (0.25)
- PHYS364 - Mathematical Physics 1 (0.50)
- PHYS365 - Mathematical Physics 2 (0.50)
- PHYS380 - Molecular and Cellular Biophysics (0.50)
- PHYS391 - Electronics (0.50)
- PHYS391L - Electronics Laboratory (0.25)
- PHYS396 - Biophysics of Imaging (0.50)
- PHYS434 - Quantum Physics 3 (0.50)
- PHYS435 - Current Topics in Condensed Matter Physics (0.50)
- PHYS437A - Research Project (0.50)
- PHYS437B - Research Project (Continued) (0.50)
- **CHEM209 - Introductory Spectroscopy and Structure (0.50)**
- **PHYS342 - Electricity and Magnetism 2 (0.50)**

Are there cross-listed courses listed in requirements?

Yes,

Cross-Listings Options

All cross-listings to be displayed,

Proposed

Additional Constraints

1. Students wishing to take CHEM264 instead of CHEM266 must obtain permission from the instructor of CHEM266L to override the prerequisite of CHEM266.
2. For the approved courses:
 1. 1.0 unit must be at the 300-level or above.
 2. 1.0 unit must be at the 400-level.
 3. The remaining 0.5 unit can be at any level.
 4. If CHEM494A is taken, CHEM494B must also be taken.

5. If PHYS437A is taken, PHYS437B may be required depending on the project.

Existing

Additional Constraints

1. Students wishing to take CHEM264 instead of CHEM266 must obtain permission from the instructor of CHEM266L to override the prerequisite of CHEM266.
2. For the approved courses:
 1. 1.0 unit must be at the 300-level or above.
 2. 1.0 unit must be at the 400-level.
 3. The remaining 1.0 unit can be at any level.
 4. If CHEM494A is taken, CHEM494B must also be taken.
 5. If PHYS437A is taken, PHYS437B may be required depending on the project.

Notes

- See list of [academic advisors](#).
- See Faculty of Science for [recommended course sequences](#).

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 Science

Dependencies

Prerequisites

- CHEM 121 - Physical and Chemical Properties of Matter
- CHEM 400 - Special Topics in Chemistry
- MNS 10 - Materials and Nanosciences Seminar
- MNS 410 - Special Topics in Solid-State Materials
- PHYS 364 - Mathematical Physics 1
- PHYS 365 - Mathematical Physics 2
- PHYS 437A - Research Project
- CHEM 220L - Quantitative Chemical Analysis Laboratory
- MNS 331 - Biomaterials
- CHEM 494A - Research Project
- PHYS 360A - Modern Physics Laboratory 1
- PHYS 260A - Intermediate Physics Laboratory 1
- MNS 201L - Materials and Nanosciences Laboratory
- MNS 431 - Special Topics in Nanobiomaterials
- PHYS 232L - Measurement Laboratory
- PHYS 260L - Intermediate Physics Laboratory

- [View Program](#)

H-Science & Aviation - Science and Aviation (Bachelor of Science - Honours)

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Effective Date and Career

Career

Undergraduate,

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

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-09-10

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

Yes,

Invalid Combinations Consultations

Aviation Minor planned for Sept. 1, 2026, can't be combined with the Science and Aviation major.

Change to Learning Outcomes

No,

Rationale and Background for Change(s)

The Faculty of Environment will retire GEOG 309, Physical Climatology, Sept. 1, 2026, replacing this requirement with a new course, AVIA 370, Aviation Meteorology, which will first be offered as a special topic course via AIVA 374, winter 2026. The Science and Aviation plan also replaces the GEOG 309 requirement with AVIA 370, effective 2026-2027.

Aviation students will greatly benefit from more practical knowledge of the atmosphere and experience in how weather forecasting is conducted to improve their in-flight skills as pilots as well as skills more broadly within the aviation industry. This is particularly prescient with the rise of turbulence-related flight incidents globally in the past few years and the increasing shifts in frequency and intensity of weather phenomena that are being documented year after year in Canada and beyond.

In addition, the new Aviation Minor is being added as an invalid combination to the Science and Aviation program. This invalid combination is mutually inclusive.

Consultations (Departmental)

Retirement of GEOG 309, and replacement with AVIA 370 as decided at a GEM curricular review session, was reported via email (B. Rodenhurst Sept. 10, 2025).

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Dean of Science Office

Faculty

Faculty of Science

Undergraduate Credential Type

Major

Program Type

Honours

Degree

Bachelor of Science (Science)

Program/Plan Name

Science and Aviation (Bachelor of Science - Honours)

Systems of Study

Regular,

Admissions

Admissions Entry Point

Direct Entry,

Admission Requirements: Minimum Requirements

- See Science and Aviation [admission requirements](#).

Requirements Information

Proposed

Invalid Combinations

Yes,

Existing

Invalid Combinations

No,

List of Invalid Combinations

Aviation Minor

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative overall average of 60.0%.
- A minimum cumulative Science average of 60.0%.

Graduation Requirements

- See [Bachelor of Science degree-level requirements](#).
- Complete a total of 20.0 units:
 - A total of 9.0 units of Science courses from the following subject codes: BIOL, CHEM, EARTH, MNS, PHYS, SCI, including:
 - 3.0 units of required Science courses listed below.
 - 1.0 unit of courses, any level.
 - 2.5 units of courses at the 200-level or above.
 - 2.0 units of courses at the 300-level or above (excluding SCI courses).
 - 0.5 unit of courses at 400-level (excluding SCI courses).
 - 9.5 units of required courses.
 - 1.5 units of elective courses.
- Complete Aviation Milestones 1 through 7.

Aviation Milestone Requirements

An aviation milestone is earned upon the successful completion of the requirements specified in Flight Training Phases 1 through 7 of the Aviation Program Outline, which is a document provided to students by the Flight Training Unit.

Course Requirements (units)

Required Courses

- 0 Units to Complete
- No Rules

Course Requirements (no units)

1. Required Courses

- Complete all of the following
- Complete all the following:
 - AVIA100 - Introduction to Aviation (0.50)
 - AVIA121 - Professional Pilot Program Course 1 (0.50)
 - AVIA141 - Preparatory Ground Instruction 1 (0.25)
 - AVIA142 - Preparatory Ground Instruction 2 (0.25)
 - AVIA222 - Professional Pilot Program Course 2 (0.50)
 - AVIA223 - Professional Pilot Program Course 3 (0.50)
 - AVIA243 - Preparatory Ground Instruction 3 (0.25)
 - AVIA244 - Preparatory Ground Instruction 4 (0.25)
 - AVIA245 - Preparatory Ground Instruction 5 (0.25)
 - AVIA310 - Human Factors in Aviation (0.50)
 - AVIA324 - Professional Pilot Program Course 4 (0.50)
 - AVIA325 - Professional Pilot Program Course 5 (0.50)
 - AVIA346 - Preparatory Ground Instruction 6 (0.25)
 - AVIA347 - Preparatory Ground Instruction 7 (0.25)
 - AVIA417 - Aviation Safety (0.50)
 - AVIA426 - Professional Pilot Program Course 6 (0.75)
 - GEOG181 - Designing Effective Maps (0.50)
 - MATH127 - Calculus 1 for the Sciences (0.50)
 - **Course Not Found**
 - **Course Not Found**
- Complete 2 of the following
- Complete all of the following

- Complete 2 of the following:
 - BIOL110 - Biodiversity, Biomes, and Evolution (0.50)
 - BIOL130 - Introductory Cell Biology (0.50)
 - BIOL201 - Human Anatomy (0.50)
 - BIOL211 - Introductory Vertebrate Zoology (0.50)
 - BIOL220 - Introduction to Plant Structure and Function (0.50)
 - BIOL239 - Genetics (0.50)
 - BIOL240 - Fundamentals of Microbiology (0.50)
 - BIOL241 - Introduction to Applied Microbiology (0.50)
 - BIOL251 - Fundamentals of Ecology (0.50)
 - BIOL266 - Introduction to Computational Biology (0.50)
 - BIOL273 - Principles of Human Physiology 1 (0.50)
-
- Complete one additional BIOL 0.5 unit, any level
-
- Complete all 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)
-
- Complete all the following:
 - EARTH121 - Introductory Earth Sciences (0.50)
 - EARTH121L - Introductory Earth Sciences Laboratory (0.25)
 - EARTH122 - Introductory Environmental Sciences (0.50)
 - EARTH122L - Introductory Environmental Sciences Laboratory (0.25)
-
- Complete 1 of the following
 - Complete all the following:
 - PHYS111 - Physics 1 (0.50)
 - PHYS111L - Physics 1 Laboratory (0.25)
 - PHYS112 - Physics 2 (0.50)
 - PHYS112L - Physics 2 Laboratory (0.25)
-
- Complete all the following:
 - PHYS121 - Mechanics (0.50)
 - PHYS121L - Mechanics Laboratory (0.25)
 - PHYS122 - Waves, Electricity and Magnetism (0.50)
 - PHYS122L - Waves, Electricity and Magnetism Laboratory (0.25)
-
- Complete 1 of the following:
 - COMMST193 - Communication in the Sciences (0.50)
 - ENGL193 - Communication in the Sciences (0.50)
-
- Complete 1 of the following:
 - GEOG271 - Earth from Space Using Remote Sensing (0.50)
 - GEOG281 - Introduction to Geographic Information Systems (GIS) (0.50)
-
- Complete a 0.5 unit math course from the following subject codes: ACTSC, AMATH, CO, CS, MATH, PMATH, STAT
- The following cannot be used towards this academic plan:
 - CS100 - Introduction to Computing Through Applications (0.50)
 - MATH103 - Introductory Algebra for Arts and Social Science (0.50)
 - ~~GEOG309 - Physical Climatology (0.50)~~

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. A maximum of 2.0 units of SCI courses is permitted.
2. Professional Pilot Program courses and Preparatory Ground Instruction courses may take place during the spring term.
3. All costs associated with the Professional Pilot Program courses are paid directly to the Waterloo-Wellington Flight Centre (WWFC).
4. AVIA121, AVIA141, AVIA142, AVIA222, AVIA223, AVIA243, AVIA244, AVIA245, AVIA324, AVIA325, AVIA346, AVIA347, AVIA426 are the Professional Pilot Program flight courses offered by and assessed through the WWFC. These courses are not used in cumulative major and overall average calculations.
5. Students may be granted advanced credits up to and including a Private Pilot Licence.
6. WWFC Program hours will be granted up to licence sign-off and the remaining hours will be logged as career, not program hours. Students are not accepted past the Private Pilot Licence or if they have acquired a Night Rating. Students entering the program with a Private Licence may be required to attend WWFC's Flight Management Basic Courses as a review.
7. Students who apply with the flight qualifications that meet the standards set by WWFC are eligible for the BSc degree upon successful completion of the plan curriculum and aviation milestones.

Notes

- See list of [academic advisors](#).
- See Faculty of Science for [recommended course sequences](#).

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 Science

Dependencies

Prerequisites

- GEOG 309 - Physical Climatology
- AVIA 474 - Special Topics in Aviation
- AVIA 475 - Independent Studies of Selected Topics
- AVIA 417 - Aviation Safety
- AVIA 101 - Professional Pilot Program Course 1
- AVIA 121 - Professional Pilot Program Course 1

[View Program](#)

[View Program](#)

[View Program](#)

[View Program](#)

[View Program](#)

[View Program](#)

- AVIA 102 - Professional Pilot Program Course 2
- AVIA 142 - Preparatory Ground Instruction 2
- AVIA 203 - Professional Pilot Program Course 3
- AVIA 222 - Professional Pilot Program Course 2
- AVIA 243 - Preparatory Ground Instruction 3
- AVIA 204 - Professional Pilot Program Course 4
- AVIA 223 - Professional Pilot Program Course 3
- AVIA 244 - Preparatory Ground Instruction 4
- AVIA 205 - Professional Pilot Program Course 5
- AVIA 245 - Preparatory Ground Instruction 5
- AVIA 306 - Professional Pilot Program Course 6
- AVIA 324 - Professional Pilot Program Course 4
- AVIA 346 - Preparatory Ground Instruction 6
- AVIA 307 - Professional Pilot Program Course 7
- AVIA 325 - Professional Pilot Program Course 5
- AVIA 347 - Preparatory Ground Instruction 7
- AVIA 408 - Professional Pilot Program Course 8
- AVIA 426 - Professional Pilot Program Course 6
- AVIA 141 - Preparatory Ground Instruction 1

- [View Program](#)

H-Science & Financial Management - Science and Financial Management (Bachelor of Science and Financial Management - Honours)

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Effective Date and Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-09-26

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

No,

Rationale and Background for Change(s)

For consistency with other Financial Management (FM) plans, Accounting, Computing, and Sustainability, Science and Financial Management is reducing overall program units from 22.0 to 20.0, by reducing science specialization units by 2.0.

For the Earth & Water Science, and the Physics of Systems & Energy Specializations, the additional 5.0 science unit requirement will be reduced to 3.0 units. For the Biotechnology Specialization which is a total of 5.0 units, some courses will be removed from requirements, while others will be added to a "complete one of the following" list. "Additional Constraint" #3 is updated to reflect this as well.

Course sequencing has been laid in a way that allows students in this plan time to select the business and the science specialization after year one, versus having to select the science one prior to starting year one. This change is reflected under "Admissions Requirements".

Consultations (Departmental)

Science departments were made aware that the unit reduction would come in the reduction of science units, this being a Science and Financial Management plan with more emphasis on business. (Oct. 8, 2025).

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Dean of Science Office

Faculty

Faculty of Science

Undergraduate Credential Type

Major

Program Type

Honours

Degree

Bachelor of Science and Financial Management

Program/Plan Name

Science and Financial Management (Bachelor of Science and Financial Management - Honours)

Systems of Study

Co-operative, Regular,

Admissions

Admissions Entry Point

Direct Entry,

Proposed

Admission Requirements: Minimum Requirements

- Students normally apply for direct admission from high school to the first year of Science and Financial Management program.
- Students normally select one of three financial management specializations, and one of three science specializations, at some point after completion of year one.

Existing

Admission Requirements: Minimum Requirements

Students normally apply for direct admission from high school to the first year of Science and Financial Management program.

At this time, they normally select one of the three science specializations to determine the science courses to include in the 1A and 1B terms.

Students normally select one of three financial management specializations, at some point after completion of year one.

Requirements Information

Invalid Combinations

Yes,

List of Invalid Combinations

Arts and Business Management Studies Minor

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum cumulative overall average of 60.0%.

- A minimum cumulative Science average of 60.0%, from all BIOL, CHEM, EARTH, MNS, PHYS or SCI courses included in addition to, and as part of any one science specialization.
- A minimum cumulative AFM average of 70.0%, from all required AFM courses below, and from all AFM courses included in any one financial management specialization.

Proposed

Graduation Requirements

Unit Requirements

- Complete a total of 20.0 units:
 - Complete 10.5 units of required courses listed below.
 - Complete 6.0 units by completing one of the following specializations:
 - Biotechnology Specialization; or
 - Earth and Water Science Specialization and 3.0 additional Science units (see Additional Constraints); or
 - Physics of Systems and Energy Specialization and 3.0 additional Science units (see Additional Constraints).
 - Complete 3.0 units by completing one of the following specializations:
 - Business Analytics Specialization and 0.5 unit of elective courses; or
 - Financial Markets Specialization; or
 - Professional Accountant Specialization.
 - Complete 0.5 unit of elective courses.

Undergraduate Communication Requirement (UCR)

Students are required to complete one course to meet the Undergraduate Communication Requirement: COMMST 193 or ENGL 193.

Notes

1. Successful completion of the UCR will result in a communication milestone on the student record.
2. Students transferring to another faculty should note that additional courses may be required to satisfy the other faculty's UCR.
3. Normally, transfer credits cannot be used to satisfy the UCR.

Existing

Graduation Requirements

Unit Requirements

- Complete a total of 22.0 units:
 - Complete 10.5 units of required courses listed below.
 - Complete 8.0 units by completing one of the following Specializations:
 - Biotechnology Specialization; or
 - Earth and Water Science Specialization and 5.0 additional Science units (see Additional Constraints); or
 - Physics of Systems and Energy Specialization and 5.0 additional Science units (see Additional Constraints).
 - Complete 3.0 units by completing one of the following Specializations:
 - Business Analytics Specialization and 0.5 unit of elective courses; or

- Financial Markets Specialization; or
- Professional Accountant Specialization.
- Complete 0.5 unit of elective courses.

Undergraduate Communication Requirement (UCR)

Students are required to complete one course to meet the Undergraduate Communication Requirement: COMMST193/ENGL193.

Notes

1. Successful completion of the UCR will result in a communication milestone on the student record.
2. Students transferring to another faculty should note that additional courses may be required to satisfy the other faculty's UCR.
3. Normally, transfer credits cannot be used to satisfy the UCR.

Co-operative Education Program Requirements

1. Complete a minimum of four credited work terms:
 1. A minimum of three must be standard work terms.
2. Complete a minimum of four Professional Development (PD) courses:
 1. PD1: Must be taken in an academic term prior to the first work term.
 2. PD11: Must be taken during the first work term.
 3. Two additional PD courses: To be taken during subsequent work terms.

Additional Constraints and Notes

1. Students may not end their sequence with a work term, and must maintain a [full-time course load](#) in an academic term preceding a work term.
2. The co-operative system of study is not open to students seeking to complete a second degree.
3. Students not meeting requirements of their plan will be transferred to another Science academic plan, if possible.
4. Students who have attempted to secure employment for all four available work terms, but are successful in doing so for only three work terms, may be considered for a co-op degree, provided they have received credit for all three of their work terms, and they have successfully completed all academic requirements. This decision is at the discretion of the Science Petitions Committee in consultation with Co-operative Education.
5. Students are required to follow only prescribed study/work-term sequencing options through to graduation.
6. Students who meet all the academic requirements for this plan, but who do not meet the minimum requirements for a co-op degree may, in exceptional circumstances and at the discretion of the Science Petitions Committee, be awarded a regular Honours Bachelor of Science and Financial Management degree.

Legend for Study/Work Sequence Information Chart

Key	Description
F,W,S	Terms: F=September-December; W=January-April; S=May-August
1,2,3,4 plus A or B	Denotes academic year and term.
WT	Work term.
off	Neither an academic term nor a work term

Key	Description
Sequences	Sequence 1 is the default sequence assigned to all Science and Financial Management students at admission. Requests to change sequence are considered individually following the 2B and 3B terms respectively.

Study/Work Sequence Information Chart

Sequence	F	W	S	F	W	S	F	W	S	F	W	S	F
1	1A	1B	off	2A	WT	2B	WT	3A	3B	WT	4A	WT	4B
2	1A	1B	off	2A	WT	2B	WT	3A	3B	4A	WT	WT	4B
3	1A	1B	off	2A	WT	2B	WT	3A	3B	WT	WT	4A	4B
4	1A	1B	off	2A	WT	2B	3A	WT	3B	WT	4A	WT	4B
5	1A	1B	off	2A	WT	2B	3A	WT	3B	4A	WT	WT	4B
6	1A	1B	off	2A	WT	2B	3A	WT	3B	WT	WT	4A	4B

Course Requirements (units)

1. Required Courses

- Complete all the following:
 - AFM112 - Analytic Methods for Business 1 (0.50)
 - AFM113 - Analytic Methods for Business 2 (0.50)
 - AFM121 - Introduction to Global Financial Markets (0.50)
 - AFM182 - Introduction to Financial Reporting and Managerial Decision Making 2 (0.50)
 - AFM191 - Introduction to Financial Reporting and Managerial Decision Making 1 (0.50)
 - AFM273 - Financial Instruments and Capital Markets (0.50)
 - AFM274 - Introduction to Corporate Finance (0.50)
 - AFM285 - Introduction to Sustainability and Sustainable Business (0.50)
 - AFM291 - Intermediate Financial Accounting 1 (0.50)
 - AFM321 - Personal Financial Planning and Taxation (0.50)
 - AFM335 - Business Law for Financial Managers (0.50)
 - AFM373 - Cases and Applications in Corporate Finance (0.50)
 - AFM391 - Intermediate Financial Accounting 2 (0.50)
 - AFM433 - Business Strategy (0.50)
 - ECON101 - Introduction to Microeconomics (0.50)
 - ECON102 - Introduction to Macroeconomics (0.50)
 - SCBUS122 - Management of Business Organizations (0.50)
 - SCBUS225 - Organizational Behaviour in Scientific and Technical Workplaces (0.50)
- Complete 1 of the following:
 - AFM323 - Quantitative Foundations for Finance (0.50)
 - AFM341 - Accounting Information Systems (0.50)
 - AFM345 - Business Applications of Social Media Analytics (0.50)
 - AFM346 - Applications of Predictive Analytics in Accounting and Finance (0.50)
 - STAT374 - Quantitative Foundations for Finance (0.50)
- Complete 2 of the following:
 - AFM205 - Introduction to Financial Services (0.25)
 - AFM206 - Introduction to Tax (0.25)
 - AFM207 - Introduction to Performance Analytics (0.25)
 - AFM208 - Introduction to Assurance (0.25)
- Complete 1 of the following:
 - COMMST193 - Communication in the Sciences (0.50)
 - ENGL193 - Communication in the Sciences (0.50)

Grand Total Units:13.5

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,

Proposed

Additional Constraints

1. Students may only complete one course from any cross-listed set.
2. No one course may fulfil more than one requirement within this major.
3. One unit of the 3.0-unit additional Science unit requirement, can be used towards mathematics courses chosen from the following subject codes: ACTSC, AMATH, CO, CS, MATH, PMATH, or STAT, when desired or as required for prerequisites.
4. Science units can be chosen from the following subject codes: BIOL, CHEM, EARTH, MNS, PHYS, or SCI.
5. A maximum of 2.0 units of SCI courses may be counted towards this degree.
6. Students declaring the Professional Accountant Specialization are required to select AFM206, AFM208, and AFM341.
7. Students declaring the Business Analytics or Financial Markets Specializations are required to select AFM205 and AFM207.

Existing

Additional Constraints

1. Students may only complete one course from any cross-listed set.
2. No one course may fulfil more than one requirement within this major.
3. One unit of the 5.0-unit additional Science unit requirement, can be used towards mathematics courses chosen from the following subject codes: ACTSC, AMATH, CO, CS, MATH, PMATH, or STAT, when desired or as required for prerequisites.
4. Science units can be chosen from the following subject codes: BIOL, CHEM, EARTH, MNS, PHYS, or SCI.
5. A maximum of 2.0 units of SCI courses may be counted towards this degree.
6. Students declaring the Professional Accountant Specialization are required to select AFM206, AFM208, and AFM341.
7. Students declaring the Business Analytics or Financial Markets Specializations are required to select AFM205 and AFM207.

Notes

- See list of Science [academic advisors](#).
- See School of Accounting and Finance (SAF) [academic advisors](#).
- See Faculty of Science for [recommended course sequences](#).

Specializations

Specializations for this Major

Yes - Required (separate record),

Specialization Details

Students must complete one of three science specializations and one of three financial management specializations, to complete this degree. See Graduation Requirements above for specifics.

Specializations List

Biotechnology Specialization, Earth & Water Science Specialization, Physics of Systems & Energy Specialization, ScFM-Business Analytics Specialization, ScFM-Financial Markets Specialization, or ScFM-Professional Accountant Specialization

Undergraduate Plan Guidelines

Workflow Information

Change to Undergraduate Communication Requirement

No,

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Science

Dependencies

Antirequisites

- LS 283 - Business Law
- AFM 231 - Business Law
- AFM 101 - Introduction to Financial Accounting

[View Program](#)

[View Program](#)

[View Program](#)

Prerequisites

- AFM 433 - Business Strategy
- AFM 491 - Advanced Financial Accounting
- AFM 274 - Introduction to Corporate Finance
- AFM 273 - Financial Instruments and Capital Markets
- AFM 341 - Accounting Information Systems
- AFM 391 - Intermediate Financial Accounting 2
- AFM 401 - Accounting Theory
- AFM 443 - E-business: Introduction to Electronic Commerce
- AFM 442 - E-Business: Enterprise Systems
- AFM 434 - Corporate Governance and Risk Management
- AFM 482 - Performance Measurement and Organization Control
- AFM 121 - Introduction to Global Financial Markets
- AFM 362 - Corporate Taxation

[View Program](#)

- AFM 483 - Applications of Analytics to Business [View Program](#)
- AFM 462 - Specialized Topics in Taxation [View Program](#)
- AFM 429 - Investment Management - Senior Portfolio Manager [View Program](#)
- AFM 329 - Investment Management - Senior Analyst [View Program](#)
- AFM 328 - Investment Management - Junior Analyst [View Program](#)
- AFM 479 - Cases and Applications in Finance 2 [View Program](#)
- AFM 444 - Business Analytics Project Management [View Program](#)
- AFM 200 - Continuation of Experiential Learning [View Program](#)
- AFM 207 - Introduction to Performance Analytics [View Program](#)
- AFM 100 - Introduction to Experiential Learning [View Program](#)
- AFM 112 - Analytic Methods for Business 1 [View Program](#)
- AFM 113 - Analytic Methods for Business 2 [View Program](#)
- AFM 324 - Wealth Management [View Program](#)
- AFM 345 - Business Applications of Social Media Analytics [View Program](#)
- AFM 347 - Cybersecurity [View Program](#)
- AFM 244 - Analytic Methods for Business 3 [View Program](#)
- AFM 446 - Performance Management and Tax Analytics [View Program](#)
- AFM 447 - Governance and Ethical Issues with Data and Emerging Technologies [View Program](#)
- AFM 346 - Applications of Predictive Analytics in Accounting and Finance [View Program](#)
- AFM 427 - Intermediate Portfolio Management [View Program](#)
- AFM 445 - Information Technology Assurance and Audit Analytics [View Program](#)
- AFM 334 - International Study Experience [View Program](#)
- AFM 418 - Special Topics in Finance or Accounting [View Program](#)
- AFM 448 - Data Analytics and Emerging Technologies Consulting Group [View Program](#)
- AFM 428 - Investment Management - Junior Portfolio Manager [View Program](#)
- AFM 451 - Audit Strategy [View Program](#)
- COMMST 111 - Leadership, Communication, and Collaboration [View Program](#)
- SCBUS 122 - Management of Business Organizations [View Program](#)
- STAT 211 - Introductory Statistics and Sampling for Accounting [View Program](#)
- AFM 127 - Introduction to Global Capital Markets and Financial Analytics [View Program](#)
- ACTSC 127 - Introduction to Global Capital Markets and Financial Analytics [View Program](#)
- AFM 272 - Global Capital Markets and Financial Analytics [View Program](#)
- ACTSC 291 - Global Capital Markets and Financial Analytics [View Program](#)
- AFM 480 - Introduction to Organizational Behaviour [View Program](#)
- AFM 191 - Introduction to Financial Reporting and Managerial Decision Making 1 [View Program](#)
- AFM 182 - Introduction to Financial Reporting and Managerial Decision Making 2 [View Program](#)
- AFM 206 - Introduction to Tax [View Program](#)
- AFM 208 - Introduction to Assurance [View Program](#)
- AFM 285 - Introduction to Sustainability and Sustainable Business [View Program](#)
- AFM 452 - Internal Audit [View Program](#)
- AFM 335 - Business Law for Financial Managers [View Program](#)
- AFM 426 - Student Venture Fund-Associate [View Program](#)
- AFM 326 - Student Venture Fund - Analyst [View Program](#)
- AFM 322 - Derivative Securities [View Program](#)
- AFM 321 - Personal Financial Planning and Taxation [View Program](#)
- AFM 205 - Introduction to Financial Services [View Program](#)
- AFM 241 - Impact of Technology on Business [View Program](#)
- AFM 291 - Intermediate Financial Accounting 1 [View Program](#)
- AFM 212 - Financial Analysis and Planning [View Program](#)
- AFM 382 - Cost Management Systems [View Program](#)

- AFM 373 - Cases and Applications in Corporate Finance [View Program](#)
- AFM 470 - Financial Management of High Growth Companies [View Program](#)
- AFM 276 - Financial Statement Analysis [View Program](#)
- SCBUS 225 - Organizational Behaviour in Scientific and Technical Workplaces [View Program](#)

Specialization is available for students in the following majors

- ScFM-Business Analytics Specialization - Business Analytics Specialization [View Program](#)
- ScFM-Financial Markets Specialization - Financial Markets Specialization [View Program](#)
- ScFM-Professional Accountant Specialization - Professional Accountant Specialization
- Biotechnology Specialization - Biotechnology Specialization [View Program](#) [View Program](#)
- Physics of Systems & Energy Specialization - Physics of Systems and Energy Specialization
- Earth & Water Science Specialization - Earth and Water Science Specialization [View Program](#)
[View Program](#)

Biotechnology Specialization - Biotechnology Specialization

[Top](#)

Effective Date and Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-09-26

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)

For consistency with other Financial Management (FM) plans, Accounting, Computing, and Sustainability, Science and Financial Management is reducing overall program units from 22.0 to 20.0, by reducing science specialization units by 2.0.

For the Biotechnology Specialization:

- BIOL 331 and CHEM 237 are no longer required for this specialization.
- BIOL 345, 431, 441, 442, CHEM 333, 432 are no longer options in the "complete one of" requirement list.
- BIOL 432 and 443 are moved from the required list to the "complete one of" requirement list.

This specialization will now require nine courses, four labs, and one additional course chosen from a list of four, for a total of 6.0 units versus 8.0.

The change also corrects an error where BIOL 432 was listed in both the required course list and the "complete one of" requirement list.

Consultations (Departmental)

Associated chairs, Department of Biology and Department of Chemistry, made aware of proposed changes to reduce units (Sept. 30, 2025 M. Sertic).

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Dean of Science Office

Faculty

Faculty of Science

Undergraduate Credential Type

Specialization

Program/Plan Name

Biotechnology Specialization

Admissions

Specialization is available for students in the following majors

Admissions Entry Point

Declare Plan,

Requirements Information

Invalid Combinations

Yes,

List of Invalid Combinations

Biology (Bachelor of Science - Honours)

Biology Minor

Average Requirement

No,

Proposed

Graduation Requirements

- Complete at total of 6.0 units.

Existing

Graduation Requirements

- Complete at total of 8.0 units.

Course Requirements (units)

1. Required Courses
 - Complete all the following:

- BIOL130 - Introductory Cell Biology (0.50)
- BIOL130L - Cell Biology Laboratory (0.25)
- BIOL235 - Foundations of Molecular Biology (0.50)
- BIOL239 - Genetics (0.50)
- BIOL240 - Fundamentals of Microbiology (0.50)
- BIOL240L - Microbiology Laboratory (0.25)
- BIOL241 - Introduction to Applied Microbiology (0.50)
- BIOL342 - Molecular Biotechnology 1 (0.50)
- 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)
- CHEM266 - Basic Organic Chemistry 1 (0.50)
- ~~BIOL331 - Advanced Cell Biology (0.50)~~
- ~~BIOL432 - Molecular Biotechnology 2 (0.50)~~
- ~~BIOL443 - Fermentation Biotechnology (0.50)~~
- ~~CHEM237 - Introductory Biochemistry (0.50)~~
- Complete 1 of the following:
 - BIOL432 - Molecular Biotechnology 2 (0.50)
 - **BIOL443 - Fermentation Biotechnology (0.50)**
 - BIOL447 - Environmental Microbiology (0.50)
 - BIOL483 - Animal Cell Biotechnology (0.50)
 - ~~BIOL345 - Microorganisms in Foods (0.50)~~
 - ~~BIOL431 - Bacterial Molecular Genetics (0.50)~~
 - ~~BIOL441 - Advances in Immunology (0.50)~~
 - ~~BIOL442 - Virology (0.50)~~
 - ~~CHEM333 - Metabolism 1 (0.50)~~
 - ~~CHEM432 - Metabolism 2 (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?

No,

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Science

Dependencies

Specializations List

- H-Science & Financial Management - Science and Financial Management (Bachelor of Science and Financial Management - Honours) [View Program](#)

Physics of Systems & Energy Specialization - Physics of Systems and Energy Specialization

[Top](#)

Effective Date and Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-09-26

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)

For consistency with other Financial Management plans, Accounting, Computing, and Sustainability, Science and Financial Management (BSc FM) is reducing overall program units from 22.0 to 20.0, by reducing science specialization units by 2.0. The Physics of Systems & Energy Specialization will remain 3.0 units, as the 2.0 units will be removed from the 5.0 additional science unit requirement needed with this specialization.

However, there are changes required in this Specialization that are driven by changes planned in the Department of Physics and Astronomy, as well as changes pending to the SCI 201 course, effective Sept. 1, 2026.

- PHYS 233 will retire, thus the PHYS 234 is added as an option.
- SCI 200 has not been offered in numerous years with no plans to offer it in the near future.
- SCI 201 will be renumbered as a 300-level EARTH courses and removed as an option.
- For students interested in using their 3.0 additional math/science units for additional physics courses, requiring a prerequisite of PHYS 122, the completion of PHYS 121, PHYS 122 and MATH 127 was added as an alternative option to PHYS 111, PHYS 112, and SCI 206.
- SCI 206 is added to the approved course requirement list as an option for those selecting the PHYS 121, PHYS 122 and MATH 127 requirement.
- PHYS 121L and PHYS 122L are added as lab options for students who choose to complete PHYS 121, 122 and MATH 127 are required.

Additional Conditions are added for cross-listed courses and to ensure that each course only satisfies one requirement.

Consultations (Departmental)

ADU Math consulted March 25, 2025 for CS and Math in Sc FM physics specialization.

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Dean of Science Office

Faculty

Faculty of Science

Undergraduate Credential Type

Specialization

Program/Plan Name

Physics of Systems and Energy Specialization

Admissions

Specialization is available for students in the following majors

H-Science & Financial Management

Admissions Entry Point

Declare Plan,

Requirements Information

Invalid Combinations

No,

Average Requirement

No,

Graduation Requirements

- Complete a total of 3.0 units.

Course Requirements (units)

Required Courses

- 0Units to Complete
- No Rules

Course Requirements (no units)

1. Required Courses

-
- Complete all of the following
- **Complete 1 of the following**
- Complete all the following:
- PHYS111 - Physics 1 (0.50)
- PHYS112 - Physics 2 (0.50)
- SCI206 - The Physics of How Things Work (0.50)
-
- Complete all the following:
- MATH127 - Calculus 1 for the Sciences (0.50)
- **PHYS121 - Mechanics (0.50)**

- **PHYS122 - Waves, Electricity and Magnetism (0.50)**
-
- Complete all of the following
- Complete 1.5 units from the following list.
- Choose any of the following:
- MATH127 - Calculus 1 for the Sciences (0.50)
- MATH128 - Calculus 2 for the Sciences (0.50)
- PHYS111L - Physics 1 Laboratory (0.25)
- PHYS112L - Physics 2 Laboratory (0.25)
- **PHYS121L - Mechanics Laboratory (0.25)**
- **PHYS122L - Waves, Electricity and Magnetism Laboratory (0.25)**
- **PHYS234 - Quantum Physics 1 (0.50)**
- SCI206 - The Physics of How Things Work (0.50)
- SCI207 - Physics, the Universe, and Everything (0.50)
- ~~PHYS233 - Introduction to Quantum Mechanics (0.50)~~
- ~~SCI200 - Energy - Its Development, Use, and Issues (0.50)~~
- ~~SCI201 - Global Warming and Climate Change (0.50)~~

Course Lists

Required Courses

- No Rules

Are there cross-listed courses listed in requirements?

No,

Additional Constraints

1. Students may only complete one course from any cross-listed set.
2. A course can only be used to satisfy one requirement.

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path
Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Science

Dependencies

Specializations List

- H-Science & Financial Management - Science and Financial Management (Bachelor of Science and Financial Management - Honours) [View Program](#)

[Top](#)

H-Medical Sciences - Medical Sciences (Bachelor of Medical Sciences - Honours)

Effective Date and Career

Career

Undergraduate,

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

No,

Creating or Changing Invalid Combinations

No,

Change to Learning Outcomes

No,

Rationale and Background for Change(s)

A small update is made to clarify the language around expectations, SGU technical requirements and policies. Specifically, a third paragraph is added to "Academic Criteria" under "Admission Requirements", to be clear that only students beginning in the 6-year track for the MD program, have the opportunity to earn a Bachelor of Medical Sciences, and not those admitting to the 5-year track. In addition, notes 4, 5, and 6 are added to the "Notes" section to link to SGU requirements and policies and to alert students to the fact that these may differ from Waterloo policies.

General Program/Plan Information

Faculty

Faculty of Science

Academic Unit

Dean of Science Office

Faculty

Faculty of Science

Undergraduate Credential Type

Major

Program Type

Honours

Degree

Bachelor of Medical Sciences

Program/Plan Name

Medical Sciences (Bachelor of Medical Sciences - Honours)

Systems of Study

Regular,

Admissions

Admissions Entry Point

Direct Entry,

Proposed

Admission Requirements: Minimum Requirements

Academic Criteria

For direct entry from high school, an Ontario Secondary School Diploma (OSSD) with an overall average of about 90% with a strong science performance, are the typical requirements for entry to St. George's University (SGU) pre-clinical programs. The students admitted into the Bachelor of Medical Sciences (BMSci) program will have met SGU admission requirements.

Once SGU completes an assessment of the potential students' credentials and have deemed they meet the admission requirements, they are provided with a link to an Ontario Universities' Application Centre (OUAC) application specific to this program. The OUAC application fee will be waived. The OUAC application to the University of Waterloo (UW) will enable the standard new student processes to take place. Once the potential UW student accepts the offer from the University, they are added to the student information system/student records (Quest) and receive identical communication and services afforded any student. At this stage they are considered a standard UW student with all the rights and privileges of a first-year student which means they have access to all the resources, amenities, benefits, on-campus services, and guaranteed access to housing in residence.

Upper-year transfer students applying to the SGU-UW track may be considered for MD-6 or MD-5 on an individual basis. However, only students beginning their studies in MD-6 would have the opportunity to earn a Bachelor of Medical Science (BMSci) degree.

Non-Academic Criteria

SGU also undertakes a holistic admission process where students are examined for personal characteristics such as motivation for medicine, empathy and compassion, communication skills, critical thinking and curiosity, resilience, and teamwork. These factors are viewed in combination to consider how an individual might contribute value not only as a medical student but also as a future physician.

Existing

Admission Requirements: Minimum Requirements

Academic Criteria

For direct entry from high school, an Ontario Secondary School Diploma (OSSD) with an overall average of about 90% with a strong science performance, are the typical requirements for entry to St. George's University (SGU) pre-clinical programs. The students admitted into the Bachelor of Medical Sciences (BMSci) program will have met SGU admission requirements.

Once SGU completes an assessment of the potential students' credentials and have deemed they meet the admission requirements, they are provided with a link to an Ontario Universities' Application Centre (OUAC) application specific to this program. The OUAC application fee will be waived. The OUAC application to the University of Waterloo (UW) will enable the standard new student processes to take place. Once the potential UW student accepts the offer from the University, they are added to the student information system/student records (Quest) and receive identical communication and services afforded any student. At this stage they are considered a standard UW student with all the rights and privileges of a first-year student which means they have access to all the resources, amenities, benefits, on-campus services, and guaranteed access to housing in residence.

Non-Academic Criteria

SGU also undertakes a holistic admission process where students are examined for personal characteristics such as motivation for medicine, empathy and compassion, communication skills, critical thinking and curiosity, resilience, and teamwork. These factors are viewed in combination to consider how an individual might contribute value not only as a medical student but also as a future physician.

Requirements Information

Invalid Combinations

No,

Average Requirement

Yes,

Minimum Average(s) Required

- A minimum 60.0% (UW) grade in all courses (see Academic Standing rules).

Notes

- UW grades earned in 1A though 2A are provided to SGU to be converted for determination of progression.
- SGU grades terms 2B though 4C, providing transcripts to UW for conversion to UW

- equivalent grades for the student transcript.
- Progression rules are based on SGU requirements and converted to UW grades (see Academic Standing Rules).

Graduation Requirements

Unit Requirements

- Complete a total of 24.0 units.

Full-Time Terms

- Have full-time enrolment in years one through four.

Undergraduate Communication Requirement (UCR)

Students are required to complete one course to meet the Undergraduate Communication Requirement: HEALTH107.

Notes

1. Successful completion of the UCR will result in a communication milestone on the student record.
2. Students transferring to another faculty should note that additional courses may be required to satisfy the other faculty's UCR.
3. Normally, transfer credits cannot be used to satisfy the UCR.

Required Courses (Term by Term)

1A Term

- Complete all of the following
- Complete all the following:
 - BIOL130 - Introductory Cell Biology (0.50)
 - BIOL130L - Cell Biology Laboratory (0.25)
 - CHEM120 - General Chemistry 1 (0.50)
 - CHEM120L - General Chemistry Laboratory 1 (0.25)
 - HLTH101 - Introduction to Health 1 (0.50)
 - PHYS105 - Introduction to Physics for Health Care Professions (0.50)
- Complete 1 of the following:
 - PSYCH101 - Introductory Psychology (0.50)
 - PSYCH101R - Introductory Psychology (0.50)
- 1B Term
- Complete all the following:
 - BIOL201 - Human Anatomy (0.50)
 - BIOL239 - Genetics (0.50)
 - CHEM123 - General Chemistry 2 (0.50)
 - CHEM123L - General Chemistry Laboratory 2 (0.25)
 - HEALTH107 - Sociology of Activity, Health, and Well-Being (0.50)

- HLTH204 - Quantitative Approaches to Health Science (0.50)
- KIN146 - Introduction to Human Nutrition (0.50)
- 2A Term
- Complete all the following:
- BIOL240 - Fundamentals of Microbiology (0.50)
- BIOL240L - Microbiology Laboratory (0.25)
- BIOL273 - Principles of Human Physiology 1 (0.50)
- CHEM237 - Introductory Biochemistry (0.50)
- CHEM266 - Basic Organic Chemistry 1 (0.50)
- CHEM266L - Organic Chemistry Laboratory (0.25)
- MEDSCI200 - Learning Strategies for Pre-Professional Programs (0.25)
- MEDSCI202 - Communication for Health Professions 1 (0.50)
- 2B Term
- Complete all the following:
- MEDSCI203 - Communication for Health Professions 2 (0.50)
- MEDSCI250 - Human Physiology (0.50)
- MEDSCI260 - Human Anatomy (0.50)
- MEDSCI270 - Biochemistry (0.50)
- MEDSCI280 - Introduction to Psychopathology (0.50)
- MEDSCI290 - Molecular Biology (0.50)
- 3A Term
- Complete all the following:
- MEDSCI300 - Basic Principles of Medicine 1 (2.50)
- 3B Term
- Complete all the following:
- MEDSCI350 - Basic Principles of Medicine 2 (2.50)
- 4A Term
- Complete all the following:
- MEDSCI420 - Basic Principles of Medicine 3 (1.00)
- 4B Term
- Complete all the following:
- MEDSCI400 - Principles of Clinical Medicine 1 (3.00)
- 4C Term
- Complete all the following:
- MEDSCI450 - Principles of Clinical Medicine 2 (2.50)

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 are required to take courses in person/on campus.
2. The BMSci program cannot be combined with any other major, minor, or option designation except as described in the invalid credential combinations.

Proposed

Notes

- See list of [academic advisors](#).
- Years One and Two are completed at the University of Waterloo.
- Years Three and Four are completed at the St. George's University, School of Medicine, Grenada.
- See [SGU technical requirements](#).
- See [SGU policies, regulations, and procedures](#), which must be followed for studies at SGU.
- Students are advised that SGU is located in a different country, subject to different laws and regulations. UW policies may not apply when at SGU.

Existing

Notes

- See list of [academic advisors](#).
- Years One and Two are completed at the University of Waterloo.
- Years Three and Four are completed at the St. George's University, School of Medicine, Grenada.

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 Science

Dependencies

Prerequisites

- MEDSCI 270 - Biochemistry [View Program](#)
- MEDSCI 280 - Introduction to Psychopathology [View Program](#)
- MEDSCI 203 - Communication for Health Professions 2 [View Program](#)
- MEDSCI 260 - Human Anatomy [View Program](#)
- MEDSCI 250 - Human Physiology [View Program](#)
- MEDSCI 200 - Learning Strategies for Pre-Professional Programs [View Program](#)
- MEDSCI 202 - Communication for Health Professions 1 [View Program](#)
- MEDSCI 290 - Molecular Biology [View Program](#)
- MEDSCI 300 - Basic Principles of Medicine 1 [View Program](#)
- MEDSCI 350 - Basic Principles of Medicine 2 [View Program](#)
- MEDSCI 420 - Basic Principles of Medicine 3 [View Program](#)
- MEDSCI 400 - Principles of Clinical Medicine 1 [View Program](#)
- MEDSCI 450 - Principles of Clinical Medicine 2 [View Program](#)

UG-SCI-Averages and Academic Standings - Science: Averages and Academic Standings

[Top](#)

Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

Change,

Rationale and Background

A new [Bachelor of Medical Sciences Regulation](#) page will house regulations related to academic standing, progression, repeating of courses/terms, and related information. As such, the already approved (for 2026-2027) section titled "Academic Standings-Bachelor of Medical Sciences" is removed from this page.

General Regulation Information

Type of Regulation

Faculty-specific,

Faculty

Faculty of Science

Regulation Page Name

Science: Averages and Academic Standings

Description

Academic standings (Bachelor of Medical Sciences, Bachelor of Science, Bachelor of Science and Financial Management, Doctor of Optometry, Doctor of Pharmacy), readmission following a failed standing, non-degree term

Regulation Details

Proposed

Regulation Details

This page presents academic standing information for the degrees of Bachelor of Science, Bachelor of Science and Financial Management, Bachelor of Medical Sciences, Doctor of Optometry, and Doctor of Pharmacy.

Academic Standings - Bachelor of Science and Bachelor of Science and Financial Management

The Bachelor of Science (BSc) and Bachelor of Science and Financial Management (BSc FM) operate under a unit-weight system in which student progress is measured by units successfully completed rather than by years. See [Determination of Level and Term of Study](#) in this Calendar for details.

At the end of each term, the Faculty of Science determines the academic standing for students in the Faculty. [Grading Systems and Processes](#) defined in this Calendar are used to make these evaluations. Academic standings are viewable in Quest.

Excellent, Good, or Satisfactory Standing

Students who meet, or exceed, the minimum academic requirements for their plan, will be in Excellent, Good, or Satisfactory academic standing, depending on their plan and their cumulative term and overall averages.

Assuming all other requirements are met, most majors in Science use the standings as follows:

- Excellent: minimum cumulative overall average greater than or equal to 80%
- Good: minimum cumulative overall average greater than or equal to 70% and less than 80%
- Satisfactory: minimum cumulative overall average greater than or equal to 60% and less than 70%

Students should consult individual Science academic programs and plans for exceptions.

Conditional Standing

Students with average(s) 1.5% below the minimum requirements for their plan may be placed in Conditional academic standing and are normally given only one additional term in which to attain a Satisfactory or better academic standing.

Students with a Conditional academic standing are strongly advised to meet with their academic advisor for plan-specific advice and the Science Student Success Officer to determine their best course of action and to discuss strategies to overcome barriers to academic success.

Students are not able to graduate while in Conditional academic standing.

Standings Requiring a Change in Major

Unsatisfactory - Eligible for Honours Science

Students whose minimum cumulative overall, major, or special major average does not qualify for Conditional standing, will be moved into Honours Science. In a future term, depending on minimum cumulative overall, major, or special major average, students may be eligible to resume their original honours plan. Readmission to a co-operative program is not guaranteed and depends on availability of space and academic averages. Students with averages below the requirements for Honours Science could receive an Unsatisfactory - Eligible for General Science Only academic standing.

Unsatisfactory - Eligible for General Science Only

When students in an honours plan do not qualify for Conditional standing or movement into Honours Science, they may be moved to General Science, depending on their averages. Students are deemed to be successful in their subsequent term if both the minimum cumulative Science and overall averages are at least 55%. In a future term, depending on minimum cumulative Science and overall averages, students may be eligible to resume their original honours plan or can continue in General Science. Readmission to a co-operative program normally does not occur.

Must Change Academic Plan

Students must change their academic plan if they exceed a plan-specific failure limit or have average(s) below plan requirements. In instances where the failure limit is exceeded, the plan will be changed to one outside the academic unit/discipline. Instances where average(s) are below the conditional threshold for plan minimums will trigger a change from the student's plan to another plan within the same academic unit/discipline.

Decision Deferred

A standing decision will be deferred when there is insufficient information for a decision to be made. A decision deferral will occur in instances where the student has:

- two or more incomplete (INC) grades
- an IP, MM, and/or UR grade
- insufficient numeric grades in their first term
- insufficient courses completed in their first conditional readmission term

Revised INC, IP, MM, and/or UR grades may lead to an updated academic standing and average calculation.

Decision Not Applicable

A standing decision will not be made in certain circumstances, e.g. a term with a petition decision, when there are no numeric grades (WDs, CR/NCRs), or when there is no program benchmark to compare progress such as post-degree studies.

Failed Standing for Students in 1A or 1B

Failed

Students in 1A or 1B will normally receive a Failed academic standing from the Faculty of Science under the following conditions:

- after failing a minimum of 1.5 units in a single academic term;
- after failing to achieve a minimum overall cumulative average of 55% and a minimum cumulative Science average of 55%; or
- if the Associate Dean, Undergraduate Studies judges that a student is unlikely to profit from further study.

Students receiving this standing have three options:

1. Foundation Term: Student will be moved to General Science and must follow a structured term of courses as determined by the Science Student Success Officer. The course load will be UNIV101 and either two science courses, or one science and one mathematics course, excluding SCI or SCBUS courses. Students must obtain a minimum grade of 60% in each lecture and lab. General requirements, principles, and outcomes can be found in the [Foundation Term page](#) of this Calendar.

2. Science Non-degree Term: Students who wish to pursue studies in another faculty must enrol in a Science non-degree term in preparation for the transfer.
3. Readmission Term: Students can apply for readmission after an absence of two consecutive academic terms (eight months).

Required to Withdraw - May Not Continue in Faculty

Students will normally receive a Required to Withdraw - May Not Continue in Faculty academic standing in the following situations:

- not meeting the conditions for readmission;
- not meeting the average requirements for the Foundation Term.

Failed Standing for Students in 2A or Above

Failed

Students will normally receive a Failed academic standing from the Faculty of Science in the following situations:

- after failing a minimum of 1.5 units in a single academic term;
- after failing to achieve a minimum overall cumulative average of 55% and a minimum cumulative Science average of 55%; or
- if the Associate Dean, Undergraduate Studies judges that a student is unlikely to profit from further study.

Students receiving this standing have two options:

1. Students who receive their first Failed academic standing may normally apply for readmission after an absence of two consecutive terms (eight months).
2. Students who are already enrolled in courses for the following term, when they receive this standing, can either withdraw or be moved to a Science non-degree term and allowed to finish that term. However, students who continue in a Science non-degree term will not be eligible to apply for readmission into any Science degree program in the future.

Required to Withdraw - May Not Continue in Faculty

Students will normally have a Required to Withdraw - May Not Continue in Faculty academic standing in the following situations:

- not meeting the conditions for readmission;
- after failing more than 5.0 cumulative units, regardless of the Science or overall averages;
- not meeting program/plan average requirements and/or failing 1.5 units or more, in any given term, following a previous Failed standing from the Faculty of Science.

Co-op Standing Rules

Students will be removed from their co-op program in the following situations:

- Two unemployed or failed work-term opportunities.
- Three missing or failed PD courses.
- Failure to successfully meet academic program requirements.
- Failure to successfully complete PD1 before the start of the second work term.
- Failure to successfully complete PD11 by the end of the second work term.

Readmission Following a Failed Standing

Students who have received a Failed academic standing must submit an [Application for Undergraduate Readmission](#) two months before the requested term of readmission.

Readmission Conditions

Students will be readmitted into General Science and must maintain a minimum cumulative average of 55% and a minimum cumulative Science average of 55%. This determination will be made based on a

minimum of five lecture courses that must be taken within a maximum of two terms. Students must complete a minimum of two approved Science lecture courses, plus any related labs where applicable, each term. Successful completion of this term will result in clearing of failed and below-average course grades up to a maximum of 3.0 units. Cleared grades will be removed from averages but not removed from the student's academic record. When conditions are not met, students will receive a Required to Withdraw - May Not Continue in Faculty academic standing.

Science Non-Degree Term

Students are normally allowed to enrol in one Science non-degree term following a Failed or a Required to Withdraw - May Not Continue in Faculty academic standing. Students enrolled in such a term are ineligible to return to any Science degree program. Enrolment in a Science non-degree term is done in consultation with the appropriate academic advisor in the Science Undergraduate Office and an advisor from the faculty in which the student is anticipating admission.

Academic Standings - Doctor of Optometry

The School of Optometry and Vision Science sets and administers its examinations in accordance with the rules and regulations set down by the University of Waterloo and the Faculty of Science. Decisions regarding course grades are those of the instructor. Students' academic standings are considered each term by the Optometry faculty and are made in accordance with the regulations listed below. All decisions on academic standing and grades are reported to the student through the Office of the Registrar.

The factors considered in academic standings in Optometry are the term average, the overall average, the number of failures, and the student standing (e.g., Satisfactory, Conditional).

Satisfactory

A student receives a Satisfactory standing if the student achieves minimum term and cumulative overall averages of 60%, with no failures.

A Satisfactory standing entitles the student to proceed to the next term.

Note

In the first two years of the program, a student with only one failure per term may proceed to the next term; however, any failed course must be cleared before proceeding into the next academic year. There are a couple of mechanisms for clearing a failed course as described on the Regulations for Doctor of Optometry page.

Conditional

A student receives a Conditional standing for,

- a minimum of two terms upon returning to the Optometry program after a Failed – Required to Withdraw standing.
- the remainder of the program after accumulating a total of four course failures in the Optometry program.
- the repeated term(s) after a May Not Proceed standing.
- the remainder of the program after any failed course in fourth year.

A Conditional standing requires that the student maintain a standard of performance during the conditional term(s). The student must clear the conditional term(s) by achieving minimum term and cumulative overall averages of 60% while having no failures or incomplete courses. Failure to achieve these conditions will lead to a Failed standing.

May Not Proceed

A student receives this standing if,

- the student achieves a minimum term average of 60% but has failed two courses in a term.
- the student, at the end of the third year, has not successfully completed all Optometry courses in the first three years.

A student will be required to leave the program until the next term the courses are offered. A student clearing failed courses under this rule must achieve a passing grade in the courses; otherwise the student will receive a Failed standing from Optometry. Only after the failed courses are cleared will the student be permitted to proceed to the next degree term.

Failed - Required to Withdraw

A student receives this standing and is required to withdraw if,

- the student fails to achieve either a minimum term or cumulative overall average of 60%.
- the student fails three or more courses in an academic term.
- the student, who is on conditional standing, fails to achieve a minimum term and/or cumulative overall average of 60%, fails one or more courses, or receives an incomplete (INC) grade.
- the student leaves the program without proper notification and fails to write examinations (a grade of DNW - did not write, is assigned for these courses).

A Failed - Required to Withdraw standing requires that the student's registration in the Optometry program be revoked. Readmission is not guaranteed. If granted, readmission cannot occur during the two academic terms following the Failed standing.

Failed – May Not Continue in Optometry Academic Plan

A student receives this standing if,

- the student has been readmitted and upon return has not achieved a minimum term and cumulative overall average of 60% and/or has failed one or more courses.
- the student has accumulated five course failures in the Optometry program.
- the student has failed the same course twice.
- the student is deemed by the Examinations Committee of the Faculty of Science to be unlikely to benefit from further participation in the Optometry program.

A Failed – May Not Continue in Optometry Academic Plan standing requires that the student's registration in Optometry be revoked. Readmission into the Optometry program is not possible. A student receiving this standing may, however, be considered for admission to another program in the Faculty of Science.

Recommended for Doctor of Optometry Degree

A student qualifies for this decision if the student has successfully completed all requirements of the Optometry program.

Recommended for Doctor of Optometry Degree entitles the student to graduate with the Doctor of Optometry (OD) degree.

Academic Standings - Doctor of Pharmacy

The School of Pharmacy sets and administers its examinations in accordance with the rules and regulations set by the Faculty of Science and the University of Waterloo. Student academic standings are considered each term by the School of Pharmacy and are made in accordance with the regulations listed as follows:

- The factors considered in academic standing in Pharmacy are the term average and the number of failed courses.
- A number of courses will be graded on a credit/no credit (CR/NCR) basis.

Satisfactory

Requires that a student achieves a minimum term average of 60% with no failed courses. This entitles a student to proceed to the next term.

May Not Proceed

Results if a student achieves a minimum term average of 60% but fails a maximum of two term courses. The failed courses must be cleared (passed) before the student is permitted to proceed to the next academic term.

Notes

A student with only one failure per term may be permitted to proceed to the next term; however, any failed course must be cleared. The student must make arrangements with the course instructor as to the mechanism for clearing the failed course.

1. In the event that the failed course is a prerequisite for a course in the following academic term, and it is not cleared before the start of the term, the student must obtain the appropriate approvals by completing a [Course Override Form](#). This form should be accompanied by a statement of the arrangements made with the instructor to clear the failed course. If the instructor of the subsequent course does not approve the course override, the student will be required to clear the failed course before proceeding to the next academic term. Due to the limited scheduling of Pharmacy courses, this will typically result in the student falling behind and extending the time required for program completion.
2. In the event that the next term is a co-op work term, the student will be permitted to begin the co-op work term. Depending on individual circumstances, the School of Pharmacy may contact the student's employer, who may elect to terminate the student's employment. For work terms that continue to completion, the student will be required to submit the appropriate evaluations and the work-term report.

Failed - Required to Withdraw

Results if a student fails to achieve the minimum term average of 60%, the student fails three or more courses in a term, or the student leaves the program without proper notification and fails to write the final examinations. This standing will also result if the student fails three attempts at the Final Year Objective Structured Clinical Examination milestone (OSCEm) as described under [Pharmacy's Graduation Requirements](#).

Failed - May Not Continue in Pharmacy Plan

Results if a student has accumulated five failures in the degree requirements of the Pharmacy program (i.e., failures in courses and/or co-op work terms). This status will also result if a grade of less than the passing grade is obtained for a repeat course or approved alternative. Readmission into the Pharmacy program is not possible; however, a student receiving this standing may be considered for admission to another program in the Faculty of Science.

Existing

Regulation Details

This page presents academic standing information for the degrees of Bachelor of Science, Bachelor of Science and Financial Management, Bachelor of Medical Sciences, Doctor of Optometry, and Doctor of Pharmacy.

Academic Standings - Bachelor of Science and Bachelor of Science and Financial Management

The Bachelor of Science (BSc) and Bachelor of Science and Financial Management (BSc FM) operate under a unit-weight system in which student progress is measured by units successfully completed rather than by years. See [Determination of Level and Term of Study](#) in this Calendar for details.

At the end of each term, the Faculty of Science determines the academic standing for students in the Faculty. [Grading Systems and Processes](#) defined in this Calendar are used to make these evaluations. Academic standings are viewable in Quest.

Excellent, Good, or Satisfactory Standing

Students who meet, or exceed, the minimum academic requirements for their plan, will be in Excellent, Good, or Satisfactory academic standing, depending on their plan and their cumulative term and overall averages.

Assuming all other requirements are met, most majors in Science use the standings as follows:

- Excellent: minimum cumulative overall average greater than or equal to 80%
- Good: minimum cumulative overall average greater than or equal to 70% and less than 80%
- Satisfactory: minimum cumulative overall average greater than or equal to 60% and less than 70%

Students should consult individual Science academic programs and plans for exceptions.

Conditional Standing

Students with average(s) 1.5% below the minimum requirements for their plan may be placed in Conditional academic standing and are normally given only one additional term in which to attain a Satisfactory or better academic standing.

Students with a Conditional academic standing are strongly advised to meet with their academic advisor for plan-specific advice and the Science Student Success Officer to determine their best course of action and to discuss strategies to overcome barriers to academic success.

Students are not able to graduate while in Conditional academic standing.

Standings Requiring a Change in Major

Unsatisfactory - Eligible for Honours Science

Students whose minimum cumulative overall, major, or special major average does not qualify for Conditional standing, will be moved into Honours Science. In a future term, depending on minimum cumulative overall, major, or special major average, students may be eligible to resume their original honours plan. Readmission to a co-operative program is not guaranteed and depends on availability of space and academic averages. Students with averages below the requirements for Honours Science could receive an Unsatisfactory - Eligible for General Science Only academic standing.

Unsatisfactory - Eligible for General Science Only

When students in an honours plan do not qualify for Conditional standing or movement into Honours Science, they may be moved to General Science, depending on their averages. Students are deemed to be successful in their subsequent term if both the minimum cumulative Science and overall averages are at least 55%. In a future term, depending on minimum cumulative Science and overall averages, students may be eligible to resume their original honours plan or can continue in General Science. Readmission to a co-operative program normally does not occur.

Must Change Academic Plan

Students must change their academic plan if they exceed a plan-specific failure limit or have average(s) below plan requirements. In instances where the failure limit is exceeded, the plan will be changed to one outside the academic unit/discipline. Instances where average(s) are below the conditional threshold for plan minimums will trigger a change from the student's plan to another plan within the same academic unit/discipline.

Decision Deferred

A standing decision will be deferred when there is insufficient information for a decision to be made. A decision deferral will occur in instances where the student has:

- two or more incomplete (INC) grades
- an IP, MM, and/or UR grade
- insufficient numeric grades in their first term
- insufficient courses completed in their first conditional readmission term

Revised INC, IP, MM, and/or UR grades may lead to an updated academic standing and average calculation.

Decision Not Applicable

A standing decision will not be made in certain circumstances, e.g. a term with a petition decision, when there are no numeric grades (WDs, CR/NCRs), or when there is no program benchmark to compare progress such as post-degree studies.

Failed Standing for Students in 1A or 1B

Failed

Students in 1A or 1B will normally receive a Failed academic standing from the Faculty of Science under the following conditions:

- after failing a minimum of 1.5 units in a single academic term;
- after failing to achieve a minimum overall cumulative average of 55% and a minimum cumulative Science average of 55%; or
- if the Associate Dean, Undergraduate Studies judges that a student is unlikely to profit from further study.

Students receiving this standing have three options:

1. Foundation Term: Student will be moved to General Science and must follow a structured term of courses as determined by the Science Student Success Officer. The course load will be UNIV101 and either two science courses, or one science and one mathematics course, excluding SCI or SCBUS courses. Students must obtain a minimum grade of 60% in each lecture and lab. General requirements, principles, and outcomes can be found in the [Foundation Term page](#) of this Calendar.
2. Science Non-degree Term: Students who wish to pursue studies in another faculty must enrol in a Science non-degree term in preparation for the transfer.
3. Readmission Term: Students can apply for readmission after an absence of two consecutive academic terms (eight months).

Required to Withdraw - May Not Continue in Faculty

Students will normally receive a Required to Withdraw - May Not Continue in Faculty academic standing in the following situations:

- not meeting the conditions for readmission;
- not meeting the average requirements for the Foundation Term.

Failed Standing for Students in 2A or Above

Failed

Students will normally receive a Failed academic standing from the Faculty of Science in the following situations:

- after failing a minimum of 1.5 units in a single academic term;
- after failing to achieve a minimum overall cumulative average of 55% and a minimum cumulative Science average of 55%; or
- if the Associate Dean, Undergraduate Studies judges that a student is unlikely to profit from further study.

Students receiving this standing have two options:

1. Students who receive their first Failed academic standing may normally apply for readmission after an absence of two consecutive terms (eight months).
2. Students who are already enrolled in courses for the following term, when they receive this standing, can either withdraw or be moved to a Science non-degree term and allowed to finish that term. However, students who continue in a Science non-degree term will not be eligible to apply for readmission into any Science degree program in the future.

Required to Withdraw - May Not Continue in Faculty

Students will normally have a Required to Withdraw - May Not Continue in Faculty academic standing in the following situations:

- not meeting the conditions for readmission;
- after failing more than 5.0 cumulative units, regardless of the Science or overall averages;
- not meeting program/plan average requirements and/or failing 1.5 units or more, in any given term, following a previous Failed standing from the Faculty of Science.

Co-op Standing Rules

Students will be removed from their co-op program in the following situations:

- Two unemployed or failed work-term opportunities.
- Three missing or failed PD courses.
- Failure to successfully meet academic program requirements.
- Failure to successfully complete PD1 before the start of the second work term.
- Failure to successfully complete PD11 by the end of the second work term.

Readmission Following a Failed Standing

Students who have received a Failed academic standing must submit an [Application for Undergraduate Readmission](#) two months before the requested term of readmission.

Readmission Conditions

Students will be readmitted into General Science and must maintain a minimum cumulative average of 55% and a minimum cumulative Science average of 55%. This determination will be made based on a minimum of five lecture courses that must be taken within a maximum of two terms. Students must complete a minimum of two approved Science lecture courses, plus any related labs where applicable, each term. Successful completion of this term will result in clearing of failed and below-average course grades up to a maximum of 3.0 units. Cleared grades will be removed from averages but not removed from the student's academic record. When conditions are not met, students will receive a Required to Withdraw - May Not Continue in Faculty academic standing.

Science Non-Degree Term

Students are normally allowed to enrol in one Science non-degree term following a Failed or a Required to Withdraw - May Not Continue in Faculty academic standing. Students enrolled in such a term are ineligible to return to any Science degree program. Enrolment in a Science non-degree term is done in consultation with the appropriate academic advisor in the Science Undergraduate Office and an advisor from the faculty in which the student is anticipating admission.

Academic Standings - Bachelor of Medical Sciences

The factors considered for term-to-term progression, from 1A up to 2B, include the term average and minimum course grades. Accumulative overall averages are not considered. Progression from 2B to 3A considers minimum course grades, minimum averages across 2A and 2B, minimum Science average across 2A and 2B (excludes communications and learning strategies courses), and minimum grades on each component of a comprehensive exam.

Progression From 1A up to 2B

To progress term by term from 1A up to 2B, student must meet course and term minimums.

Satisfactory

A student receives this standing, and can progress to the next term if,

- the student obtains a minimum 60% in each course, and
- the student obtains a 77% term average.

May Not Proceed

A student receives this standing if,

- one or more courses are below 60%; and/or
- the term average is below 77%.

Repeating Courses

If a student does not meet this minimum, they must retake that course before progression to the next term. Only the higher grade is used in average calculations when repeated. A student can normally repeat a failed course only once.

Progression From 2B to 3A

Students progress to the 3A term at St. George's University (SGU) if they obtain:

- a minimum 60% in each 2B course;
- a minimum cumulative average of 77% across all 2A and 2B courses;
- a minimum cumulative average of 73% across all 2A and 2B Science courses (excludes Communication and Learning Strategies courses); and
- a minimum 60% grade on each component of the comprehensive exam.

A standing of Satisfactory or May Not Proceed will be assigned as appropriate.

Repeating courses

SGU will determine progression and may offer students who do not meet one or more of the above requirements an opportunity to take courses in the following term at SGU so that their grades can meet requirements.

Progression From 3A up to 4C

Progression through the five terms in Year 3 and Year 4 (Years 1 and 2 of the Medical Degree (MD) program at SGU):

- Progression from 3A to 3B requires: a minimum 59%.
- Progression from 3B to 4A requires: a minimum 61.5%.
- Progression from 4A to 4B requires: a minimum 63%.
- Progression from 4B to 4C requires: a minimum 63%.

A standing of Satisfactory or May Not Proceed will be assigned as appropriate.

Repeating Courses

Students are permitted to repeat these MD courses to achieve the average requirement needed to progress.

Progression From 4C to the Remaining Years of the MD Program

Students must complete the 4C term with a minimum 63% to be eligible to meet graduation requirements for the Bachelor of Medical Science (BMSci) degree, and for continuation in the final two years of the MD program.

Academic Standings - Doctor of Optometry

The School of Optometry and Vision Science sets and administers its examinations in accordance with the rules and regulations set down by the University of Waterloo and the Faculty of Science. Decisions regarding course grades are those of the instructor. Students' academic standings are considered each term by the Optometry faculty and are made in accordance with the regulations listed below. All decisions on academic standing and grades are reported to the student through the Office of the Registrar.

The factors considered in academic standings in Optometry are the term average, the overall average, the number of failures, and the student standing (e.g., Satisfactory, Conditional).

Satisfactory

A student receives a Satisfactory standing if the student achieves minimum term and cumulative overall averages of 60%, with no failures.

A Satisfactory standing entitles the student to proceed to the next term.

Note

In the first two years of the program, a student with only one failure per term may proceed to the next term; however, any failed course must be cleared before proceeding into the next academic year. There are a couple of mechanisms for clearing a failed course as described on the Regulations for Doctor of Optometry page.

Conditional

A student receives a Conditional standing for,

- a minimum of two terms upon returning to the Optometry program after a Failed – Required to Withdraw standing.
- the remainder of the program after accumulating a total of four course failures in the Optometry program.
- the repeated term(s) after a May Not Proceed standing.
- the remainder of the program after any failed course in fourth year.

A Conditional standing requires that the student maintain a standard of performance during the conditional term(s). The student must clear the conditional term(s) by achieving minimum term and cumulative overall averages of 60% while having no failures or incomplete courses. Failure to achieve these conditions will lead to a Failed standing.

May Not Proceed

A student receives this standing if,

- the student achieves a minimum term average of 60% but has failed two courses in a term.
- the student, at the end of the third year, has not successfully completed all Optometry courses in the first three years.

A student will be required to leave the program until the next term the courses are offered. A student clearing failed courses under this rule must achieve a passing grade in the courses; otherwise the student will receive a Failed standing from Optometry. Only after the failed courses are cleared will the student be permitted to proceed to the next degree term.

Failed - Required to Withdraw

A student receives this standing and is required to withdraw if,

- the student fails to achieve either a minimum term or cumulative overall average of 60%.
- the student fails three or more courses in an academic term.
- the student, who is on conditional standing, fails to achieve a minimum term and/or cumulative overall average of 60%, fails one or more courses, or receives an incomplete (INC) grade.
- the student leaves the program without proper notification and fails to write examinations (a grade of DNW - did not write, is assigned for these courses).

A Failed - Required to Withdraw standing requires that the student's registration in the Optometry program be revoked. Readmission is not guaranteed. If granted, readmission cannot occur during the two academic terms following the Failed standing.

Failed – May Not Continue in Optometry Academic Plan

A student receives this standing if,

- the student has been readmitted and upon return has not achieved a minimum term and cumulative overall average of 60% and/or has failed one or more courses.
- the student has accumulated five course failures in the Optometry program.
- the student has failed the same course twice.
- the student is deemed by the Examinations Committee of the Faculty of Science to be unlikely to benefit from further participation in the Optometry program.

A Failed – May Not Continue in Optometry Academic Plan standing requires that the student’s registration in Optometry be revoked. Readmission into the Optometry program is not possible. A student receiving this standing may, however, be considered for admission to another program in the Faculty of Science.

Recommended for Doctor of Optometry Degree

A student qualifies for this decision if the student has successfully completed all requirements of the Optometry program.

Recommended for Doctor of Optometry Degree entitles the student to graduate with the Doctor of Optometry (OD) degree.

Academic Standings - Doctor of Pharmacy

The School of Pharmacy sets and administers its examinations in accordance with the rules and regulations set by the Faculty of Science and the University of Waterloo. Student academic standings are considered each term by the School of Pharmacy and are made in accordance with the regulations listed as follows:

- The factors considered in academic standing in Pharmacy are the term average and the number of failed courses.
- A number of courses will be graded on a credit/no credit (CR/NCR) basis.

Satisfactory

Requires that a student achieves a minimum term average of 60% with no failed courses. This entitles a student to proceed to the next term.

May Not Proceed

Results if a student achieves a minimum term average of 60% but fails a maximum of two term courses. The failed courses must be cleared (passed) before the student is permitted to proceed to the next academic term.

Notes

A student with only one failure per term may be permitted to proceed to the next term; however, any failed course must be cleared. The student must make arrangements with the course instructor as to the mechanism for clearing the failed course.

1. In the event that the failed course is a prerequisite for a course in the following academic term, and it is not cleared before the start of the term, the student must obtain the appropriate approvals by completing a [Course Override Form](#). This form should be accompanied by a statement of the arrangements made with the instructor to clear the failed course. If the instructor of the subsequent course does not approve the course override, the student will be required to clear the failed course before proceeding to the next academic term. Due to the limited scheduling of Pharmacy courses, this will typically result in the student falling behind and extending the time required for program completion.
2. In the event that the next term is a co-op work term, the student will be permitted to begin the co-op work term. Depending on individual circumstances, the School of Pharmacy may contact the student's employer, who may elect to terminate the student's employment. For work terms that continue to completion, the student will be required to submit the appropriate evaluations and the work-term report.

Failed - Required to Withdraw

Results if a student fails to achieve the minimum term average of 60%, the student fails three or more courses in a term, or the student leaves the program without proper notification and fails to write the final examinations. This standing will also result if the student fails three attempts at the Final Year Objective Structured Clinical Examination milestone (OSCEm) as described under [Pharmacy's Graduation Requirements](#).

Failed - May Not Continue in Pharmacy Plan

Results if a student has accumulated five failures in the degree requirements of the Pharmacy program (i.e., failures in courses and/or co-op work terms). This status will also result if a grade of less than the passing grade is obtained for a repeat course or approved alternative. Readmission into the Pharmacy program is not possible; however, a student receiving this standing may be considered for admission to another program in the Faculty of Science.

Workflow Information

Workflow Path
Committee approvals,

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

UG-SCI-Courses and Classes - Science: Courses and Classes

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Effective Date & Career

Career
Undergraduate,

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2025

Proposal Details

Proposal Type
Change,

Rationale and Background

Course Load Regulations

- BSc FM: Students enrolled in this program will be subject to the same course load regulations as those in other Honours Bachelor of Science plans (BSc). Students considering a reduced course load will be encouraged to consult with their program advisor.
- BMSci: Students enrolled in this program follow a sequenced curriculum with a per-term course load ranging from 1.0 to 3.25 units, typically between 2.5 and 3.0 units. Students will be advised to consult with their program advisor prior to making any changes to their course load.
- General Science: Students in this program have a 2.5 lecture unit maximum per term, but also a 2.75 unit per term maximum; both maximums will be included to:
 - Align with Honours BSc.
 - Provide transparency and understanding that a lower lecture unit total is required if lab enrolment is included.

Grading

- BMSci: The BMSci program is structured as a 2+4 medical school pathway, with students completing the first two years at the University of Waterloo and the final four years at St. George's University (SGU) in Grenada.
 - For Years 1A to 2B, the Faculty of Science will serve as the examining body.
 - For Years 3A to 4C, SGU will serve as the examining body.

Graduate-Level Courses

- BMSci: Due to the program's prescribed curriculum, students in the BMSci program are not eligible to count graduate-level courses toward their degree requirements.

Repeating Courses

- BSc FM: Students in this program will follow the standard Faculty of Science regulations regarding the repeating of courses.
- BMSci: This program has a structured, sequenced curriculum, in which repeating of courses is associated with academic progression and which will be outlined on it's own new regulation page, as with Optometry and Pharmacy.
- Courses with substantial overlapping content, indicated as antirequisite or cross-listed courses: Students can only receive credit for one of them as defined in the University-wide regulation for [Overlapping Courses](#). In the Faculty of Science, only one grade will count for averages as was outlined in the 2023-2024 Faculty of Science regulations for [Course Overlaps/Antirequisites](#). This is now brought back and specified under this regulation.

General Regulation Information

Type of Regulation

Faculty-specific,

Faculty

Faculty of Science

Regulation Page Name

Science: Courses and Classes

Description

Course load, repeating courses, audit, taking graduate-level courses, grading

Regulation Details

Proposed

Regulation Details

Course Load

Three-Year General Bachelor of Science (BSc) Plan

The normal allowable per term course load is five lecture courses and one lab. Normally, enrolment will be capped at 2.75 units per term.

Honours Bachelor of Science (BSc) and Bachelor of Science and Financial Management (BSc FM) Plans

The normal allowable per term course load is five lecture courses and their associated labs. Normally, enrolment will be capped at 3.25 units per term.

Students are advised not to enrol in six lecture courses per term and, normally, will be required to drop one course unless their cumulative overall average is above 80%.

Students wishing to exceed 3.25 units by enrolling in:

- any combination of lectures and labs, involving less than seven lecture courses will:
 - submit a unit load override request to their academic advisor for consideration, within the Course Selection Period.
- seven lecture courses will:
 - normally, have a minimum cumulative average of 90%.
 - [submit a petition](#) for consideration by the Science Petitions Committee.

Honours Bachelor of Medical Sciences (BMSci) Plan

The medical pathway program has a required sequenced curriculum. Per term unit load varies between 1.0 and 3.25 units, but is typically 2.5 or 3.0 units. Normally, students are expected to follow the required sequence.

Reduced Course Load

Students should be aware of their [responsibilities](#). Students in BSc FM, BMSci, or any BSc plans, should discuss any plans for a reduced course load with their [academic advisor](#) and are cautioned that carrying a reduced [course load](#) might jeopardize their current and/or future studies.

Grading

1. The Faculty of Science constitutes the examining body for all courses. After the results have been considered they will be posted on Quest. Course attributes, definitions, and grades currently used

can be found under [Grading Systems and Processes](#).

2. For the BSc program, the Faculty of Science constitutes the examining body for courses in terms 1A to 2B, and St. George's University constitutes the examining body for courses in terms 3A to 4C.
3. Students who do not complete a portion of a course for health or other documented circumstances should consult their course outline, review Faculty information and instructions regarding accommodations, and refer to [Academic Considerations and Accommodations](#).

Auditing Courses

The Faculty of Science neither records nor recognizes Audits for students in Science or any other faculty.

Enrolment in Graduate Courses

Students in the Faculty of Science, excluding those in the BMSci plan, can use one 0.5-unit graduate course toward their undergraduate degree, if they have completed 3B with a minimum cumulative overall average of 80%. Normally, the graduate course will align with a strong personal interest or resolve a scheduling conflict.

Approval must be obtained from the instructor, the undergraduate academic advisor, and the graduate officer of the academic unit in which the course is offered.

A graduate course used toward an undergraduate degree cannot be used toward a graduate degree.

Repeating Courses

BSc and BSc FM plans:

When courses are taken twice but passed once, both grades are included in average calculations regardless of whether the failure occurred on the first or subsequent registration. In such cases, both a credit and a failure are recorded.

In instances where a passed course is repeated, and passed again, the second attempt will typically not receive credit and will not count in the average. This also applies to instances where the two courses are listed as antirequisite or cross-listed courses.

In cases where the same course is failed twice, only some plans allow a third attempt. Fourth attempts are not permitted.

[Bachelor of Medical Sciences Regulations](#), [Doctor of Optometry Regulations](#), and [Doctor of Pharmacy Regulations](#) detail the rules specific to these programs.

Existing

Regulation Details

Course Load

Three-Year General Bachelor of Science (BSc) Plan

A maximum enrolment of 2.5 lecture units is allowed per term.

Honours Bachelor of Science (BSc) Plans

The normal allowable per term course load is five lecture courses and their associated labs. Normally, enrolment will be capped at 3.25 units per term.

Students are advised not to enrol in six lecture courses per term and, normally, will be required to drop one course unless their cumulative overall average is above 80%.

Students wishing to exceed 3.25 units by enrolling in:

- any combination of lectures and labs, involving less than seven lecture courses will:

- submit a unit load override request to their academic advisor for consideration, within the Course Selection Period.
- seven lecture courses will:
 - normally, have a minimum cumulative average of 90%.
 - [submit a petition](#) for consideration by the Science Petitions Committee.

Reduced Course Load

Students should be aware of their [responsibilities](#). Students in any Science Bachelor of Science (BSc) major should discuss any plans for a reduced course load with their [academic advisor](#) and are cautioned that carrying a reduced [course load](#) might jeopardize their current and/or future studies.

Grading

1. The Faculty of Science constitutes the examining body for all courses. After the results have been considered they will be posted on Quest. Course attributes, definitions, and grades currently used can be found under [Grading Systems and Processes](#).
2. Students who do not complete a portion of a course for health or other documented circumstances should consult their course outline, review Faculty information and instructions regarding accommodations, and refer to [Academic Considerations and Accommodations](#).

Auditing Courses

The Faculty of Science neither records nor recognizes Audits for students in Science or any other faculty.

Enrolment in Graduate Courses

Students in the Faculty of Science can use one 0.5-unit graduate course toward their undergraduate degree, if they have completed 3B with a minimum cumulative overall average of 80%. Normally, the graduate course will align with a strong personal interest or resolve a scheduling conflict.

Approval must be obtained from the instructor, the undergraduate academic advisor, and the graduate officer of the academic unit in which the course is offered.

A graduate course used toward an undergraduate degree cannot be used toward a graduate degree.

Repeating Courses

When courses are taken twice but passed once, both grades are included in average calculations regardless of whether the failure occurred on the first or subsequent registration. In such cases, both a credit and a failure are recorded.

In instances where a passed course is repeated, and passed again, the second attempt will typically not receive credit and will not count in the average.

In cases where the same course is failed twice, only some plans allow a third attempt. Fourth attempts are not permitted.

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Science

UG-SCI-Transfer Information - Science: Transfer Information

Effective Date & Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Change,

Rationale and Background

Students in the Medical Sciences plan, in partnership with St. George University (SGU) are required to meet Waterloo residency and 50% rules. Therefore, they not eligible to take Letter of Permission courses, and they are not eligible for advanced standing via external transfer credits.

This is now specified under the "Letter of Permission" and "External Transfer Students" sections of this regulation page.

General Regulation Information

Type of Regulation

Faculty-specific,

Faculty

Faculty of Science

Regulation Page Name

Science: Transfer Information

Description

Letter of permission, transfer students

Regulation Details

Proposed

Regulation Details

Letter of Permission

Students in satisfactory or higher academic standing, whose total number of transfer credits is less than the [maximum permitted](#), may be allowed to take courses at another university during a term off campus to count for credit towards a degree. A student wishing to do so must complete the [Letter of Permission Application](#) and have it approved by the academic advisor before enrolling at the other university. The Letter of Permission must be obtained before taking the course(s).

The third year of the General Science plan and the fourth year of all honours academic plans in Science must generally be completed at the University of Waterloo. However, in exceptional circumstances, up to 2.5 units in the final year may be completed on a Letter of Permission.

A course taken on a Letter of Permission will be given credit as long as the grade obtained is 60% or better. No grade will be assigned.

Students in the Medical Sciences program are not eligible to take courses on a Letter of Permission.

Transfer Students

External Transfer Students

Students may be accepted for transfer from other post-secondary institutions. Transfer credit will be evaluated in terms of the University's [residency requirement](#) and [50% rule](#), and the number of units remaining for a degree. Consideration for transfer credit will be given for relevant courses.

- Normally, only courses completed within the last 10 years are considered.
- Professional program courses are not considered for transfer credit.
- Credits transferred to any Science program are not included in cumulative average calculations.
- Students with a valid Transport Canada issued Private Pilot Licence may be awarded transfer credits for AVIA121, AVIA141, and AVIA142 (1.0 unit total) towards a Science or Environment academic plan.
- Students applying to the Medical Doctor (MD) pathway through St. George University (SGU) must complete two years of courses at Waterloo to be eligible for a Bachelor of Medical Sciences (BMSci) and MD degree, therefore, transfer credits will not be evaluated as they are not eligible for advanced standing via external transfer credits.

External and Faculty Transfer Students

Students applying for transfer to a co-operative program in the Faculty of Science normally will not be admitted above the 2A term level.

Only 5.0 transfer credit units are allowed for new students entering Science and Aviation programs. Aviation Professional Pilot Program and Preparatory Ground Instruction courses (AVIA), completed while enrolled in either the Geography and Aviation or Science and Aviation academic plans, will be considered for internal transfer credits towards a Science or Environment academic plan.

Students currently holding a Bachelor of Science degree will normally be considered for admission into post-degree studies only.

Existing

Regulation Details

Letter of Permission

Students in satisfactory or higher academic standing, whose total number of transfer credits is less than the [maximum permitted](#), may be allowed to take courses at another university during a term off campus to count for credit towards a degree. A student wishing to do so must complete the [Letter of Permission Application](#) and have it approved by the academic advisor before enrolling at the other university. The Letter of Permission must be obtained before taking the course(s).

The third year of the General Science plan and the fourth year of all honours academic plans in Science must generally be completed at the University of Waterloo. However, in exceptional circumstances, up to 2.5 units in the final year may be completed on a Letter of Permission.

A course taken on a Letter of Permission will be given credit as long as the grade obtained is 60% or better. No grade will be assigned.

Transfer Students

External Transfer Students

Students may be accepted for transfer from other post-secondary institutions. Transfer credit will be evaluated in terms of the University's [residency requirement](#) and [50% rule](#), and the number of units remaining for a degree. Consideration for transfer credit will be given for relevant courses. Normally, only courses completed within the last 10 years are considered. Professional program courses are not considered for transfer credit. Credits transferred to any Science program are not included in cumulative average calculations. Students with a valid Transport Canada issued Private Pilot Licence may be awarded transfer credits for AVIA121, AVIA141, and AVIA142 (1.0 unit total) towards a Science or Environment academic plan.

External and Faculty Transfer Students

Students applying for transfer to a co-operative program in the Faculty of Science normally will not be admitted above the 2A term level. Only 5.0 transfer credit units are allowed for new students entering Science and Aviation programs.

Aviation Professional Pilot Program and Preparatory Ground Instruction courses (AVIA), completed while enrolled in either the Geography and Aviation or Science and Aviation academic plans, will be considered for internal transfer credits towards a Science or Environment academic plan.

Students currently holding a Bachelor of Science degree will normally be considered for admission into post-degree studies only.

Workflow Information

Workflow Path
Committee approvals,

Faculty/AFIW Path(s) for Workflow

UG-AR-Level/Term of Study - Determination of Level and Term of Study

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Effective Date & Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2023

Proposal Details

Proposal Type

Change,

Rationale and Background

Change #1 (Faculty of Science): The new Medical Sciences (Bachelor of) academic plan, effective 2026-27, is added to the list of programs that use a term-by-term progression as the basis of determining the level of study.

Note: The term-progression minimum units for the new Science and Financial Management (Bachelor of) academic plan, effective 2026-27, fits with the existing "Science Academic Plans" in the unit threshold table, thus, no changes to the page are required for this new Science plan.

Change #2 (Faculty of Arts): With the new Bachelor of Arts (Social Development Studies) and Bachelor of Social Work Double Degree academic plans effective 2026-27, the term-progrssions chart on this page needs to be updated to include the four-year academic plan (three-year general) and the five-year academic plans (four-year general and Honours). The first additional row addresses the 3G-Bachelor of Arts (SDS) and H-Bachelor of Social Work Double Degree and the second additional row addresses the 4G-Bachelor of Arts (SDS) and H-Bachelor of Social Work Double Degree and the H-Bachelor of Arts (SDS) and H-Bachelor of Social Work Double Degree.

General Regulation Information

Type of Regulation

University-wide,

Regulation Page Name

Determination of Level and Term of Study

Description

Progression to next level/term of study.

Regulation Details

Proposed

Regulation Details

Engineering (Including Architecture and Software Engineering), Medical Sciences, Optometry, Pharmacy

Normally, progression to the next term (and academic level) is based on successful completion of the **previous term**, as defined by the program.

All Other Academic Plans

Normally, progression to the next academic level is based on successful completion of the **number of units** specified in the following chart.

Note: "n/a" used in the following table translates to "not applicable."

Academic Plans	Units Threshold to Move to this Academic Level										
	1A	1B	2A	2B	3A	3B	4A	4B	4C	5A	5B
All three-year academic plans	0.0	2.0	4.0	7.0	9.5	12.0	n/a	n/a	n/a	n/a	n/a
Science academic plans	0.0	2.0	4.25	7.5	10.25	12.75	15.5	18.0	n/a	n/a	n/a
All other four-year academic plans	0.0	2.0	4.0	7.0	9.5	12.0	14.5	17.0	n/a	n/a	n/a
Three-year Bachelor of Arts	0.0	2.0	4.0	7.0	9.5	12.0	14.5	17.0	n/a	n/a	n/a

Academic Plans	Units Threshold to Move to this Academic Level										
	1A	1B	2A	2B	3A	3B	4A	4B	4C	5A	5B
and Bachelor of Social Work double degree											
Four-year Bachelor of Arts and Bachelor of Social Work double degree	0.0	2.0	4.0	7.0	9.5	12.0	14.5	17.0	n/a	19.5	22.0
Mathematics double degree	0.0	2.0	4.0	7.0	9.5	12.0	14.5	17.0	n/a	19.5	22.0
Bachelor of Social Work	n/a	n/a	n/a	n/a	n/a	n/a	0.0	2.0	4.5	n/a	n/a

Existing

Regulation Details

Engineering (Including Architecture and Software Engineering), Optometry, Pharmacy

Normally, progression to the next term (and academic level) is based on successful completion of the **previous term**, as defined by the program.

All Other Academic Plans

Normally, progression to the next academic level is based on successful completion of the **number of units** specified in the following chart.

Note: "n/a" used in the following table translates to "not applicable."

Academic Plans	Units Threshold to Move to this Academic Level										
	1A	1B	2A	2B	3A	3B	4A	4B	4C	5A	5B
All three-year academic plans	0.0	2.0	4.0	7.0	9.5	12.0	n/a	n/a	n/a	n/a	n/a
Science academic plans	0.0	2.0	4.25	7.5	10.25	12.75	15.5	18.0	n/a	n/a	n/a
All other four-year academic plans	0.0	2.0	4.0	7.0	9.5	12.0	14.5	17.0	n/a	n/a	n/a
Mathematics double degree	0.0	2.0	4.0	7.0	9.5	12.0	14.5	17.0	n/a	19.5	22.0
Bachelor of Social Work	n/a	n/a	n/a	n/a	n/a	n/a	0.0	2.0	4.5	n/a	n/a

Workflow Information

Workflow Path

Committee approvals,

UG-ADM-Transferring to Waterloo - Transferring to Waterloo

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Effective Date & Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Change,

Rationale and Background

Progression through the new Bachelor of Medical Sciences plan is measure by terms completed rather than credits completed. Medical Sciences is added to the list of programs that are an exception to the course-credit system under "Advanced Standing". Students applying to Medical Sciences are not eligible for advanced standing.

General Regulation Information

Type of Regulation

University-wide,

Regulation Page Name

Transferring to Waterloo

Description

Admission requirements from university/college, CEGEPs, bible colleges. Advanced standing and transfer credit.

Regulation Details

Proposed

Regulation Details

Advanced Standing

Applicants seeking advanced standing must specify the faculty, program, and year of study to which they are requesting admission. All programs, with the exception of Architecture, Engineering (including Software Engineering), Medical Sciences, Optometry, and Pharmacy, operate on a course-credit system where students' progress is measured by courses completed rather than by years completed. Applicants to faculties that operate under the course-credit system will have previous work evaluated on an individual course basis. For other applicants, advanced standing will be determined to the appropriate year or term.

- [Faculty of Engineering advanced standing](#)
- [Doctor of Optometry advanced standing](#)

Transfer Credit

Applicants must submit an official academic transcript from all secondary and post-secondary institutions they have previously attended or are currently attending. Applicants must also submit course outlines to facilitate the evaluation of previous work and assist in the assessment of possible transfer credits.

The University of Waterloo subscribes to the following General Policy on the Transfer of Course Credits, as adopted by the Council of Ontario Universities:

- Acceptance of transfer credits among Ontario universities shall be based on the recognition that, while learning experiences may differ in a variety of ways, their substance may be essentially equivalent in terms of their content and rigour. Insofar as possible, acceptance of transfer credit should allow for maximum recognition of previous learning experience in university-level courses.
- Subject to degree, grade, and program requirements, any course offered for credit by one Ontario university shall be accepted for credit by another Ontario university when there is an essential equivalency in course content.

The University grants transfer credits from accredited institutions based upon the assessments performed by academic units and within our residency requirements for all types of transfer students.

At the University, the assignment of transfer credits to a specific degree program will be at the discretion of the admitting authority for the faculty or other academic unit concerned.

Find out more about [current transfer policies](#).

See faculty-specific transfer information in this Calendar:

- [Faculty of Arts](#)
- [Faculty of Environment](#)
- [Faculty of Health](#)
- [Faculty of Mathematics](#)
- [Faculty of Science](#)

Admission Requirements by Application Group

As a general policy, applicants to the University must present an academic background at least equivalent to the admission requirements specified for Ontario secondary school students. It is important that this background includes courses equivalent to the required Ontario Grade 12 U (university level) and/or M (university/college level) courses.

Applicants From Universities

Applicants from universities who have met the minimum [admission requirements](#) for programs at Waterloo will be assessed for admission and possible transfer credit on an individual basis according to the [faculty-specific university transfer policies](#).

Applicants From Colleges

Applicants from college who have not completed a high school diploma and the required Ontario Grade 12 U and/or M courses or equivalents should [contact admissions](#).

Applicants from college who have met the minimum [admission requirements](#) for programs at Waterloo will be assessed for admission and possible transfer credit on an individual basis according to the [faculty-specific college transfer policies](#). Each college attended will be verified for acceptable accreditation.

Applicants From Quebec Collèges d'enseignement général et professionnel (CEGEPs)

Find out more about [program-specific requirements for Quebec Collèges d'enseignement général et professionnel \(CEGEPs\)](#).

Applicants from Quebec CEGEPs who have met the minimum admission requirements for programs at Waterloo will be assessed for admission and possible transfer credit on an individual basis according to the [faculty-specific CEGEP transfer policies](#).

Applicants from Bible Colleges

Applicants from accredited bible colleges or from those colleges which are candidates for accreditation will be considered for admission and possible transfer credits when minimum admission requirements have been met. Applicants must present the Ontario Grade 12 U (university level) [program-specific course requirements](#) (or equivalents) for the programs to which they have applied.

The assignment of transfer credits to a specific degree program is at the discretion of the admitting authority of the faculty or academic unit concerned. Applicants will be considered on an individual basis according to the [bible college transfer policies](#).

Existing

Regulation Details

Advanced Standing

Applicants seeking advanced standing must specify the faculty, program, and year of study to which they are requesting admission. All programs, with the exception of Architecture, Engineering (including Software Engineering), Optometry, and Pharmacy, operate on a course-credit system where students' progress is measured by courses completed rather than by years completed. Applicants to faculties that operate under the course-credit system will have previous work evaluated on an individual course basis. For other applicants, advanced standing will be determined to the appropriate year or term.

- [Faculty of Engineering advanced standing](#)
- [Doctor of Optometry advanced standing](#)

Transfer Credit

Applicants must submit an official academic transcript from all secondary and post-secondary institutions they have previously attended or are currently attending. Applicants must also submit course outlines to facilitate the evaluation of previous work and assist in the assessment of possible transfer credits.

The University of Waterloo subscribes to the following General Policy on the Transfer of Course Credits, as adopted by the Council of Ontario Universities:

- Acceptance of transfer credits among Ontario universities shall be based on the recognition that, while learning experiences may differ in a variety of ways, their substance may be essentially equivalent in terms of their content and rigour. Insofar as possible, acceptance of transfer credit should allow for maximum recognition of previous learning experience in university-level courses.
- Subject to degree, grade, and program requirements, any course offered for credit by one Ontario university shall be accepted for credit by another Ontario university when there is an essential equivalency in course content.

The University grants transfer credits from accredited institutions based upon the assessments performed by academic units and within our residency requirements for all types of transfer students.

At the University, the assignment of transfer credits to a specific degree program will be at the discretion of the admitting authority for the faculty or other academic unit concerned.

Find out more about [current transfer policies](#).

See faculty-specific transfer information in this Calendar:

- [Faculty of Arts](#)
- [Faculty of Environment](#)
- [Faculty of Health](#)
- [Faculty of Mathematics](#)
- [Faculty of Science](#)

Admission Requirements by Application Group

As a general policy, applicants to the University must present an academic background at least equivalent to the admission requirements specified for Ontario secondary school students. It is important that this background includes courses equivalent to the required Ontario Grade 12 U (university level) and/or M (university/college level) courses.

Applicants From Universities

Applicants from universities who have met the minimum [admission requirements](#) for programs at Waterloo will be assessed for admission and possible transfer credit on an individual basis according to the [faculty-specific university transfer policies](#).

Applicants From Colleges

Applicants from college who have not completed a high school diploma and the required Ontario Grade 12 U and/or M courses or equivalents should [contact admissions](#).

Applicants from college who have met the minimum [admission requirements](#) for programs at Waterloo will be assessed for admission and possible transfer credit on an individual basis according to the [faculty-specific college transfer policies](#). Each college attended will be verified for acceptable accreditation.

Applicants From Quebec Collèges d'enseignement général et professionnel (CEGEPs)

Find out more about [program-specific requirements for Quebec Collèges d'enseignement général et professionnel \(CEGEPs\)](#).

Applicants from Quebec CEGEPs who have met the minimum admission requirements for programs at Waterloo will be assessed for admission and possible transfer credit on an individual basis according to the [faculty-specific CEGEP transfer policies](#).

Applicants from Bible Colleges

Applicants from accredited bible colleges or from those colleges which are candidates for accreditation will be considered for admission and possible transfer credits when minimum admission requirements have been met. Applicants must present the Ontario Grade 12 U (university level) [program-specific course requirements](#) (or equivalents) for the programs to which they have applied.

The assignment of transfer credits to a specific degree program is at the discretion of the admitting authority of the faculty or academic unit concerned. Applicants will be considered on an individual basis according to the [bible college transfer policies](#).

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Science

UG-TFS-Tuition & Other Fees - Tuition and Other Fees

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Effective Date & Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Change,

Rationale and Background

Tuition and fees for the Bachelor of Medical Sciences (BMSci), a new 2 + 4 medical school pathway program in partnership with St. George University, (SGU) are paid directly to SGU.

The Fee Assessment regulation is updated to include reference to the Medical Sciences exception, under "Regular Programs" as well as to link directly to SGU tuition and fees webpages.

The only change to this page is the addition of the following in the section "Fee Assessment: after the "Regular Programs" heading:

Medical Sciences

Students in this [Direct entry MD Program- SGU + University of Waterloo Medical School Track](#), are assessed on a per-term basis for all tuition, and fees are paid directly to St. George University (SGU). Information about [Tuition, Fees and Financial Planning](#) are detailed on SGU web pages.

Finance (Gina Moreno) was sent the proposed wording for this page, Nov. 7, 2025 via email.

General Regulation Information

Type of Regulation

University-wide,

Regulation Page Name

Tuition and Other Fees

Description

Fee arrangements. Fee assessment details. Fee payment processes. Withdrawals and adjustments. Impact due to course add/drop.

Regulation Details

Proposed

Regulation Details

Fee Assessment

Student Fees

Student fees are assessed one [term](#) at a time. Student [fees](#) include tuition, incidentals, and fees for [residence and meal plan](#), as applicable. Exception: Students living in residence at Conrad Grebel University College or United College will be billed directly by that institution for the residence fee.

Fees for textbooks, class notes, mandatory supplies, or other costs associated with field trips, and/or other miscellaneous expenses, are not charged to student accounts.

Undergraduate fee schedules are posted on the [Student Financial Services website](#).

Tuition Fees

Fees are assessed per 0.5-unit course (and pro-rated for other course weights), either on campus or online, whether for credit or being audited. For the latest undergraduate course fees, refer to the [Student Financial Services website](#).

Co-operative Programs

Engineering/Software Engineering/Architecture

Students taking more than two 0.5-unit courses are assessed on a per-term basis for the basic term fee. Students taking two or fewer 0.5-unit courses in a term are assessed by course at the unit course fee.

All Other Co-operative Academic Plans

Students are assessed by course at the unit course fee to a maximum of the basic term fee.

Regular Programs

Medical Sciences

Students in the [direct entry MD Program - SGU + University of Waterloo Medical School Track](#) are assessed on a per-term basis for all tuition, and fees are paid directly to St. George University (SGU). Information about [tuition, fees, and financial planning](#) are detailed on SGU web pages.

Optometry

Students are assessed on a per-term basis for the basic term fee.

Other Regular Academic Plans

Students are assessed by course at the unit course fee to a maximum of the basic term fee.

Incidental Fees

[Incidental fees](#) are non-tuition fees charged to students each term based on their faculty, program, course load, campus, and citizenship status.

Access to some student services may be restricted when the student is not charged full-time incidental fees.

Students can opt out of some incidental fees charged each term by making their selections in Quest by the term due date.

Students can request an adjustment for the charges associated with the supplementary health, dental, and legal service plans annually, during the change of coverage period each fall term, on the [Studentcare website](#). Successful opt outs will be reflected on student accounts during the term.

Co-op Fee

The [co-op fee](#) is an additional fee assessed to all co-op students enrolled in more than two 0.5-unit courses per term, for a prescribed number of academic terms based on their program of record during that term. This fee reflects the additional administrative cost associated with offering a co-op program. Students who have completed the normally scheduled number of academic terms, but are required to remain enrolled for additional terms in order to complete their academic degree requirements are exempt from the co-op and work report marking fees in excess of the number required by their program.

Work Report Marking Fee

The work report marking fee for co-op students recovers the academic-related costs of marking work reports, work term reflections, the Pharmacy Inventory of Skills report, and other work term assessment tools. It is calculated in accordance with guidelines approved by the Ministry of Colleges, Universities, Research Excellence and Security. Only students in Pharmacy are charged the work report marking fee.

Fee Payment and Arrangements

Students are responsible to pay in full or make [fee arrangements](#) for the balance on their student account by the term due date to avoid being charged a [Fees Arranged Extension fee](#) for the convenience of doing so after the term due date.

The current schedule of term due dates and complete information on arranging payment of fees is available on the [Student Financial Services website](#).

Student Tuition Bills

The student account can be viewed in [Quest](#). An initial fee assessment is posted based on the program, academic plan, academic level, and courses enrolled at the time of assessment. The University of Waterloo does not issue paper invoices, receipts, or statements for student accounts. Students may use the email function at the bottom of their [Quest account summary page](#) to produce a statement of their account which can serve as an invoice or as a receipt for fees paid.

Outstanding Fees and Implications

Changes made to the student's program, enrolment status, course load, housing, or meal plan after the beginning of term will be reflected in the student account. Balances which remain outstanding on student accounts 60 days after the term due date and any overdue library fines, parking fines, health services fees, or overdue emergency loans will result in one or more [holds](#) being applied to the student account. The holds will prevent the student from viewing grades; from accessing adjustments, transcripts, and diplomas; and from enrolling in courses for another term. Payment in full of the overdue balance must be received by the University for the hold to be removed.

Students who have not made fee arrangements by the course add deadline each term will have a [Not Fees Arranged](#) hold applied to their student account. The hold will prevent the student from viewing grades; from accessing adjustments, transcripts, diplomas, financial aid, the bus pass, health insurance; and from course registration processes. The student's registered status in Quest must be Fees Arranged for the hold to be removed.

Withdrawals and Adjustments

There are financial and academic consequences related to voluntary withdrawal. Consult faculty regulations associated with voluntary withdrawal, with or without academic penalty. Students are encouraged to speak to their academic advisor(s) before withdrawing.

A student who finds it necessary to withdraw from attendance is normally required to complete a [Notice of Withdrawal Form](#). Specific withdrawal adjustment dates are indicated on the schedule of [due dates](#). Withdrawal may entitle the student to an adjustment of tuition fees calculated as follows:

1. Students withdrawing up to the end of the third calendar week from the start of lectures each term will receive a full adjustment of all fees.
2. Students withdrawing in calendar weeks four to seven from the start of lectures each term will receive a 50% adjustment of each of the following fees: tuition, co-op fee, work report marking fee, and student services fees.

3. Adjustments are not provided to students who withdraw after calendar week seven from the start of lectures each term.
4. The benefits associated with the supplementary health, dental, and legal insurance plans will be cancelled for those students who withdraw during the first three weeks from the start of lectures.
5. The Waterloo Undergraduate Student Association fees are adjusted only for students who withdraw during the first three weeks from the start of lectures each term.
6. Certain scholarships and bursaries are given on the condition of completion of the term involved. Any withdrawal adjustments will be credited to the agency as required.

Adjustments for credit balances remaining on a student's account are issued in the third month of term, provided Canadian banking information has been added in Quest. Otherwise, credits are held on a student's account to be applied to future charges.

Adding and Dropping Courses

For students assessed on a per course basis, the net effect of adding and dropping courses may change the overall fee assessment for the term. In general, adding a course will increase the fee assessment by the unit course fee to a maximum tuition charge equal to the basic term fee. Dropping a course may generate an adjustment, calculated on the same basis as a withdrawal at either 100%, 50%, or zero, depending on when the course is dropped and the resulting final course load. Contact [Student Financial Services](#) for clarification of the financial impact before dropping a course.

Students who change their course load within the first three weeks of the start of lectures each term may see a change in charges for incidental fees.

Existing

Regulation Details

Fee Assessment

Student Fees

Student fees are assessed one [term](#) at a time. Student [fees](#) include tuition, incidentals, and fees for [residence and meal plan](#), as applicable. Exception: Students living in residence at Conrad Grebel University College or United College will be billed directly by that institution for the residence fee.

Fees for textbooks, class notes, mandatory supplies, or other costs associated with field trips, and/or other miscellaneous expenses, are not charged to student accounts.

Undergraduate fee schedules are posted on the [Student Financial Services website](#).

Tuition Fees

Fees are assessed per 0.5-unit course (and pro-rated for other course weights), either on campus or online, whether for credit or being audited. For the latest undergraduate course fees, refer to the [Student Financial Services website](#).

Co-operative Programs

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All Other Co-operative Academic Plans

Students are assessed by course at the unit course fee to a maximum of the basic term fee.

Regular Programs

Optometry

Students are assessed on a per-term basis for the basic term fee.

Other Regular Academic Plans

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3. Adjustments are not provided to students who withdraw after calendar week seven from the start of lectures each term.
4. The benefits associated with the supplementary health, dental, and legal insurance plans will be cancelled for those students who withdraw during the first three weeks from the start of lectures.
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6. Certain scholarships and bursaries are given on the condition of completion of the term involved. Any withdrawal adjustments will be credited to the agency as required.

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For students assessed on a per course basis, the net effect of adding and dropping courses may change the overall fee assessment for the term. In general, adding a course will increase the fee assessment by the unit course fee to a maximum tuition charge equal to the basic term fee. Dropping a course may generate an adjustment, calculated on the same basis as a withdrawal at either 100%, 50%, or zero, depending on when the course is dropped and the resulting final course load. Contact [Student Financial Services](#) for clarification of the financial impact before dropping a course.

Students who change their course load within the first three weeks of the start of lectures each term may see a change in charges for incidental fees.

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Science

Date 2026/01/19

Show Empty Fields

Meeting Information

Agenda Page TitleSUC - 2026-02 - Consent Agenda - Renison

Career Level
Undergraduate,

Faculty/UnitRenison

Summary

Undergraduate Studies Submission for SUC Consent Agenda - February 2026

Course Proposals

Course Proposal Details

1. Course Changes

New Courses:

SWREN 111R - Foundations of Critical Social Work: Social Justice and Helping

SWREN 212R - Social Work Storytelling and Critical Trauma Informed Practice

SWREN 261R - Indigenous Knowledges and Decolonizing Social Work Practice with Indigenous Peoples

SWREN 314R - Interviewing and Assessment in Social Work Practice

SWREN 322R - Macro Practice: Critical Considerations of Community Organization

SWREN 323R - Social Work Knowledge and Skills for Diverse Group Work Practice

SWREN 324R - Social Work Activism and Social Policy

SWREN 334R - Selected Theories for Social Work Practice: Analysis and Application

SWREN 412R - Environmental Justice and Community Action

SWREN 416R - Transnational Social Work and Transmigration

SWREN 444R - Practicum 1

SWREN 445R - Practicum 2

Course Changes

SWREN 424R - changed rules and edited the course description.

SWREN 431R - changed rules and edited the course description.

SWREN 470R - changed rules and edited the course description.

SWREN 471R - changed rules and edited the course description.

SWREN 490R - changed rules and edited the course description.

Courses: Retire No proposals have been added.

Courses: New

Code	Title	Type	Workflow Step
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<u>SWREN 111R</u>	Foundations of Critical Social Work: Social Justice and Helping	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 212R</u>	Social Work Storytelling and Critical Trauma Informed Practice	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 261R</u>	Indigenous Knowledges and Decolonizing Social Work Practice with Indigenous Peoples	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 314R</u>	Interviewing and Assessment in Social Work Practice	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 322R</u>	Macro Practice: Critical Considerations of Community Organization	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 323R</u>	Social Work Knowledge and Skills for Diverse Group Work Practice	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 324R</u>	Social Work Activism and Social Policy	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 334R</u>	Selected Theories for Social Work Practice: Analysis and Application	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 412R</u>	Environmental Justice and Community Action	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 416R</u>	Transnational Social Work and Transmigration	Courses	SUC Subcommittee, SUC Curricular Subcommittee

<u>SWREN 444R</u>	Practicum 1	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 445R</u>	Practicum 2	Courses	SUC Subcommittee, SUC Curricular Subcommittee

Courses: Changes

Code	Title	Type	Workflow Step
<u>SWREN 424R</u>	Social Work and Organizations	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 431R</u>	Practitioner Research in Social Work: Intersectional Considerations	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 470R</u>	Mental Health Landscapes, Concepts, and Practice Approaches	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 471R</u>	Social Work with Older Adults: Critical Issues and Future Trends	Courses	SUC Subcommittee, SUC Curricular Subcommittee
<u>SWREN 490R</u>	Special Topics in Social Work	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.

SWREN 111R - Foundations of Critical Social Work: Social Justice and Helping

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Effective Date & Career

Career
Undergraduate,

Effective Term and Year
Fall 2026

Proposal Details

Proposal Type
New,

Academic Unit Approval
2025-02-12

Rationale for New Course

This course will be offered as part of the planned BSW/SDS Double Degree program modification. The School of Social Work will be developing and teaching new courses for the program modification, and this course is one of the new courses to be offered when the BSW/SDS Double Degree begins.

Consultations

We consulted with the Department of Social Development Studies.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

111R

Course Level

100

Title

Foundations of Critical Social Work: Social Justice and Helping

Abbreviated Title
Critical Social Work Found

Undergraduate Communication Requirement Identifier
No,

Description

In this course, you will explore the "helping" role of social work through a social justice lens. You will be supported to deconstruct common understandings of, and approaches to, "helping" by critically examining concepts and terms that are foundational to contemporary social work ethics, philosophies, theories, and approaches to practice. You will begin to build the skills and knowledge necessary for becoming a reflexive practitioner in the field of social work. Emphasizing critical reflexivity, critical reflection, and consciousness-raising, the course will prepare you for the subsequent Bachelor of Social Work curriculum and Social Work's commitment to the pursuit of social justice.

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

Department consent required,

Prerequisites

No Rules

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

There are no dependencies

SWREN 212R - Social Work Storytelling and Critical Trauma Informed Practice

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Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course will be offered as part of the planned BSW/SDS Double Degree program modification. The School of Social Work will be developing and teaching new courses for the program modification, and this course is one of the new courses to be offered when the BSW/SDS Double Degree begins.

Consultations

We consulted with the Department of Social Development Studies.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

212R

Course Level

200

Title

Social Work Storytelling and Critical Trauma Informed Practice

Abbreviated Title

Storytelling, Trauma-Informed

Undergraduate Communication Requirement Identifier

No,

Description

In this course, you will consider social work, story, and critical trauma-informed engagement. This trauma-informed approach to storytelling will frame a critique of current practices to individualized recovery narratives based on principles that pathologize people and their experiences of trauma. In this course, you will critically analyze the various contexts in which people experience trauma, accepting that people's recovery from trauma cannot happen until the contexts in which they live stop oppressing them and reproducing trauma. You will learn social work practice skills, invite storytelling and storylistening into your practice; support service users in their processes of "being heard" and creating "counter narratives"; and facilitate an empowering critical consciousness that can create opportunities for change, both at the personal and community level.

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

Department consent required,

Prerequisites

Complete all of the following

- Must have completed the following:

- SOCWK220R - Social Work with Individuals - Theory and Practice 1 (0.50)
- Enrolled in
 - Not Found
- ,
 - Not Found
- , or
 - Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

There are no dependencies

SWREN 261R - Indigenous Knowledges and Decolonizing Social Work Practice with Indigenous Peoples

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Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course needs to be re-sequenced into the 4 – 5 year SDS/BSW double degree from its current location in the BSW post-degree (as a 4th year course). The course description for SWREN 261R is edited to create consistency across all of the course descriptions in the BSW program. Additionally, SWREN 261R was entered in the system as a new course to allow the original course code (SWREN 411R) to exist as long as the post-degree BSW continues to be offered (until 2028-

2029), but the course is not new to the BSW curriculum. Once the post-degree program ends, SWREN 411R will be retired.

Consultations

We consulted with the Department of Social Development Studies

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

261R

Course Level

200

Title

Indigenous Knowledges and Decolonizing Social Work Practice with Indigenous Peoples

Abbreviated Title

Indigenous Knowledges

Undergraduate Communication Requirement Identifier

No,

Description

In this integrative practice course, you will examine colonial impacts on social work policies and service delivery that adversely affect Indigenous Peoples in Canada. You will examine Indigenous knowledges and the importance of cultural practices for healing that is central to shifting colonial notions of "best interest". You will engage in a reflexive stance to gain an inward gaze and analysis of the structural powers that work to sustain political, economic, environmental, and social injustices, as well as the identification of and actions towards decolonizing social work practices, relationships, and allyship with Indigenous Peoples.

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

Department consent required,

Prerequisites

Enrolled in

- Not Found
- ,
- Not Found
- , or
- Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

There are no dependencies

SWREN 314R - Interviewing and Assessment in Social Work Practice

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Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course needs to be re-sequenced into the 4 - 5 year SDS/BSW double degree from its current location in the BSW post-degree (as a 4th year course). The course description for SWREN 314R is edited to create consistency across all of the course descriptions in the BSW program. Additionally, SWREN 314R was entered in the system as a new course to allow the original course code (SWREN 414R) to exist as long as the post-degree BSW continues to be offered (until 2028-2029), but the course is not new to the BSW curriculum. Once the post-degree program ends, SWREN 414R will be retired.

Consultations

We consulted with the Department of Social Development Studies.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

314R

Course Level

300

Title

Interviewing and Assessment in Social Work Practice

Abbreviated Title

Interviewing & Assessment

Undergraduate Communication Requirement Identifier

No,

Description

As a student in this social work methods course, you will explore the theory and skills of generalist social work practice, with particular attention to interviewing, communication, and assessment skills used with individuals, families, organizations, and communities. Emphasis is placed on your developing capacity for "critical reflection" on the social work practitioner's professional and personal self.

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

Department consent required,

Prerequisites

Complete all of the following

- Must have completed the following:
 - SOCWK220R - Social Work with Individuals - Theory and Practice 1 (0.50)
- Enrolled in
 - Not Found
- ,
 - Not Found
- , or
 - Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals,

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

Renison University College

Dependencies

There are no dependencies

SWREN 322R - Macro Practice: Critical Considerations of Community Organization

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Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details**Proposal Type**

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course needs to be re-sequenced into the 4 – 5 year SDS/BSW double degree from its current location in the BSW post-degree (as a 4th year course). The course description for SWREN 322R is edited to create consistency across all of the course descriptions in the BSW program. Additionally, SWREN 322R was entered in the system as a new course to allow the original course code (SWREN 422R) to exist as long the post-degree BSW continues to be offered (until 2028-2029), but the course is not new to the BSW curriculum. Once the post-degree program ends, SWREN 422R will be retired.

Consultations

We consulted with the Department of Social Development Studies.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

322R

Course Level

300

Title

Macro Practice: Critical Considerations of Community Organization

Abbreviated Title

Critical Macro Practice

Undergraduate Communication Requirement Identifier

No,

Description

As a student in this course, you will examine and compare the strengths, limitations, differential uses, and interconnections of the range of skills needed for community organization, social planning, and social policy practice. You will explore practical applications such as conference planning, proposal writing, and fundraising.

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

Department consent required,

Prerequisites

Enrolled in

- Not Found
- ,

- Not Found
- , or
- Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFTW Path(s) for Workflow

Renison University College

Dependencies

There are no dependencies

SWREN 323R - Social Work Knowledge and Skills for Diverse Group Work Practice

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Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course needs to be re-sequenced into the 4 – 5 year SDS/BSW double degree from its current location in the BSW post-degree (as a 4th year course). The course description for SWREN 323R is edited to create consistency across all of the course descriptions in the BSW program. Additionally, SWREN 323R was entered in the system as a new course to allow the original course code (SWREN 423R) to exist as long the post-degree BSW continues to be offered (until 2028-2029), but the course is not new to the BSW curriculum. Once the post-degree program ends, SWREN 423R will be retired.

Consultations

We consulted with the Department of Social Development Studies

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

323R

Course Level

300

Title

Social Work Knowledge and Skills for Diverse Group Work Practice

Abbreviated Title

Diverse Group Work Practice

Undergraduate Communication Requirement Identifier

No,

Description

The aim of this course is to develop your knowledge of different approaches to social group work practice, and the ways in which specialized knowledge of clients' life conditions, life circumstances, and significant life events informs social work practice with groups within a generalist framework. You will conceptualize and analyze group-work skills and the capacity for self-directed practice with groups directed towards increasing the resiliency of the group as a whole and the resiliency of individual group members. A salient goal for your learning in this course is the use of democratic means so that group process in all social work groups reflects a vision of social justice.

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

Department consent required,

Prerequisites

Complete all of the following

- Must have completed the following:
 - Course Not Found
- Enrolled in
 - Not Found
- ,
 - Not Found
- , or
 - Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes**Workflow Information**

Workflow Path

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

Committee approvals,

Renison University College

Dependencies

There are no dependencies

SWREN 324R - Social Work Activism and Social Policy

[Top](#)

Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course will be offered as part of the planned BSW/SDS Double Degree program modification. The School of Social Work will be developing and teaching

new courses for the program modification, and this course is one of the new courses to be offered when the BSW/SDS Double Degree begins

Consultations

We consulted with the Department of Social Development Studies

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

324R

Course Level

300

Title

Social Work Activism and Social Policy

Abbreviated Title

Activism & Social Policy

Undergraduate Communication Requirement Identifier

No,

Description

From critical and intersectional frameworks, in this course you will examine the development, implementation, analysis, and impact of social policies in contemporary neoliberal Canada, with an upstream focus on understanding the unique roles that social work advocates play in advocating for social change. You will engage with transformative change strategies that promote social justice and human rights. Through case studies, experiential learning, and dialogue, you will understand the connection between micro and macro knowledge and skills that are necessary to influence policy to address current social issues in Canada.

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

Department consent required,

Prerequisites

Complete all of the following

- Must have completed the following:
 - Course Not Found
- Enrolled in
 - Not Found
- ,
 - Not Found
- , or
 - Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

There are no dependencies

SWREN 334R - Selected Theories for Social Work Practice: Analysis and Application

[Top](#)

Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course needs to be re-sequenced into the 4 – 5 year SDS/BSW double degree from its current location in the BSW post-degree (as a 4th year course). The course description for SWREN 334R is edited to create consistency across all of the course descriptions in the BSW program. Additionally, SWREN 334R was entered in the system as a new course to allow the original course code (SWREN 434R) to exist as long the post-degree BSW continues to be offered (until 2028-2029), but the course is not new to the BSW curriculum. Once the post-degree program ends, SWREN 434R will be retired.

Consultations

We consulted with the Department of Social Development Studies.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

334R

Course Level

300

Title

Selected Theories for Social Work Practice: Analysis and Application

Abbreviated Title

Selected Theories, Social Work

Undergraduate Communication Requirement Identifier

No,

Description

In this course, you will be provided an overview of selected theories that guide a generalist- eclectic approach to social work practice. You will have the opportunity to engage in the critical analysis and application of contemporary theories by integrating theory with social work values and principles. You will focus on the critical use of theory to understand, critique, and transform the social work profession.

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

Department consent required,

Prerequisites

Complete all of the following

- Must have completed the following:
 - Course Not Found
- Enrolled in
 - Not Found
- ,
 - Not Found
- , or

- Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals,

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

Renison University College

Dependencies

There are no dependencies

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SWREN 412R - Environmental Justice and Community Action

Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course will be offered as part of the planned BSW/SDS Double Degree program modification. The School of Social Work will be developing and teaching new courses for the program modification, and this course is one of the new

courses to be offered when the BSW/SDS Double Degree begins.

Consultations

We consulted with the Department of Social Development Studies

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

412R

Course Level

400

Title

Environmental Justice and Community Action

Abbreviated Title

Env Justice & Community Action

Undergraduate Communication Requirement Identifier

No,

Description

Social workers are being called upon to centralize land and incorporate environmental well-being and healing into structural and systemic practices and considerations of social justice. Throughout this course, you will explore and share ideas about what environmental justice can mean to a social worker. Shared considerations of environmental justice will be related to health inequity and social determinants of health, environmental racism, white supremacy,

pollution as colonial violence, environmental intersectionality, activism, and how this impacts local and global communities. You will develop social work practice skills related to decolonizing approaches, activism, strength-focused healing, intergenerational trauma responses, and land-centered critical thinking and healing.

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

Department consent required,

Prerequisites

Complete all of the following

- Students must be in level 3A or higher
- Enrolled in
 - Not Found
- ,
 - Not Found
- , or
 - Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

There are no dependencies

SWREN 416R - Transnational Social Work and Transmigration

[Top](#)

Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

This course will be offered as part of the planned BSW/SDS Double Degree program modification. The School of Social Work will be developing and teaching new courses for the program modification, and this course is one of the new courses to be offered when the BSW/SDS Double Degree begins.

Consultations

We consulted with the Department of Social Development Studies

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

416R

Course Level

400

Title

Transnational Social Work and Transmigration

Abbreviated Title
Transnational Social Work

Undergraduate Communication Requirement Identifier
No,

Description

In this course, you will explore the impact of transnationalism on social work theories and practices. You will examine how transnational institutions and structures shape lives in the current global context, focusing on the relationship between transnationalism and transmigration. Understanding that more people lead transnational lives, you will consider how social work can support this shift. You will examine social work theories and practices that bridge the global and local levels. You will consider current transnational activism through an examination of global inequality as rooted in colonialism and imperialism. You will also address the oversight in migration literature, which is often disconnected from Indigenous Peoples and their lands. You will fill this gap by exploring how social work can connect transmigration to Indigenous sovereignty and anticolonial projects.

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

Department consent required,

Prerequisites

Complete all of the following

- Students must be in level 3A or higher
- Enrolled in
 - Not Found
- ,
 - Not Found
- , or
 - Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals,

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

Renison University College

Dependencies

There are no dependencies

SWREN 444R - Practicum 1

[Top](#)

Effective Date & Career

Career
Undergraduate,

Effective Term and Year
Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

The course description for SWREN 444R is edited to create consistency across all of the course descriptions in the BSW program. Additionally, SWREN 444R was entered in the system as a new course to allow the original course code (SWREN 441R) to exist as long the post-degree BSW continues to be offered (until 2028-2029), but the course is not new to the BSW curriculum. Once the post-degree program ends, SWREN 441R will be retired.

Consultations

We consulted with the department of SDS.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code**Number**

SWREN

444R

Course Level

400

Title

Practicum 1

Abbreviated Title

Practicum 1

Undergraduate Communication Requirement Identifier

No,

Description

This first practicum phase will help you to understand the general structure and functioning of the helping network and the place of agency-based community settings in it. Simultaneously, you will begin to integrate interviewing and assessment skills to formulate an intervention plan with sensitivity to the diversity of the setting. A bi-weekly seminar runs concurrently with the practicum.

Units

1.50

Exceptions to Fees or Academic Progress Units

No,

Components

Practicum

Primary Component

Practicum

Grading Information

Standard Course Grading

No,

Special Course Grading

Credit/No Credit

Cross-Listing Information

Is this course cross-listed?

No,

Repeatable Courses

Can this course be repeated for credit?

No,

Enrolment Rules

Consent to Add

No consent required,

Consent to Drop

Department consent required,

Prerequisites

Complete all of the following

- Students must be in level 4A or higher
- Enrolled in
 - Not Found
- ,
 - Not Found
- , or
 - Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

There are no dependencies

SWREN 445R - Practicum 2

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Effective Date & Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-02-12

Rationale for New Course

The course description for SWREN 445R is edited to create consistency across all of the course descriptions in the BSW program. Additionally, SWREN 445R was entered in the system as a new course to allow the original course code (SWREN 442R) to exist as long the post-degree BSW continues to be offered (until 2028-2029), but the course is not new to the BSW curriculum. Once the post-degree program ends, SWREN 442R will be retired.

Consultations

Consultations were with the department of Social Development Studies.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

445R

Course Level

400

Title

Practicum 2

Abbreviated Title

Practicum 2

Undergraduate Communication Requirement Identifier

No,

Description

The second practicum phase develops your intervention skills. You will have the opportunity to enhance social work practice skills specific to particular client populations within the context of diversity, and to develop awareness of your professional self in relation to social work practice within the agency context. A bi-weekly seminar runs concurrently with the practicum.

Units

1.50

Exceptions to Fees or Academic Progress Units

No,

Components

Practicum

Primary Component

Practicum

Grading Information

Standard Course Grading

No,

Special Course Grading

Credit/No Credit

Cross-Listing Information

Is this course cross-listed?

No,

Repeatable Courses

Can this course be repeated for credit?

No,

Enrolment Rules

Consent to Add

No consent required,

Consent to Drop

Department consent required,

Prerequisites

Complete all of the following

- Must have completed the following:
 - Course Not Found

- Enrolled in
 - Not Found
- ,
 - Not Found
- , or
 - Not Found

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path
Committee approvals,

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

Renison University College

Dependencies

There are no dependencies

SWREN 424R - Social Work and Organizations

[Top](#)

Effective Date & Career

Career

Undergraduate,

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2023

Offering Number

1

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-02-12

Rationale for Change

Change rules and edit the course description

The new rules reflect the structure of the BA in SDS/BSW double degree. The course description was edited to be consistent with all the course descriptions in the BSW program.

Consultations

We consulted with the Social Development Studies department

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

424R

Course Level

400

Title

Social Work and Organizations

Abbreviated Title
Social Work & Organizations

Undergraduate Communication Requirement Identifier
No,

Proposed

Description

As a student in this course, you will apply critical and anti-oppressive theories to examine how organizations shape social work practice. You will investigate the relations between social workers, service users, agency colleagues, and other institutions in particular practice settings, and how these are influenced by policies, mandates, forms, and other institutional texts. Key concepts that you will explore include diversity, inclusion, anti-racism, decolonization, and institutional (in)justice.

Existing

Description

In this course, students will apply critical and anti-oppressive theories to examine how organizations shape social work practice. Students will investigate the relations between social workers, service users, agency colleagues, and other institutions in particular practice settings, and how these are influenced by policies, mandates, forms, and other institutional texts. Key concepts will include diversity, inclusion, anti-racism, decolonization, and institutional (in)justice.

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

Proposed

Consent to Add

No consent required,

Existing

Consent to Add

Department consent required,

Proposed

Consent to Drop

Department consent required,

Existing

Consent to Drop

No consent required,

Prerequisites

1. Enrolled in H-Social Work,
 - **Not Found**
 - ,

- **Not Found**
- **, or**
- **Not Found**

Corequisites

1. No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

Course Requirements (units)

- H-Social Work - Social Work (Bachelor of Social Work - Honours)

[View Program](#)

SWREN 431R - Practitioner Research in Social Work: Intersectional Considerations

[Top](#)

Effective Date & Career

Career

Undergraduate,

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2023

Offering Number

1

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-02-12

Rationale for Change

rules change, edits to course description

Rationale: The new rules reflect the structure of the BSW/BA in SDS double degree. The course description was edited to be consistent with all the course descriptions in the BSW program.

Consultations

With the Department of Social Development Studies.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

431R

Course Level

400

Title

Practitioner Research in Social Work: Intersectional Considerations

Abbreviated Title

Practitioner Research in SWK

Undergraduate Communication Requirement Identifier

No,

Proposed

Description

As a student of this course, you will examine contemporary fields of practice. Your attention will be given to historical developments, service delivery systems, and practices. You will engage in research activities to help develop a critical understanding of how social experience impacts the ways that people with diverse experiences access and encounter some of the major fields of practice.

Existing

Description

This course examines contemporary fields of practice. Attention is given to historical developments, service delivery systems, and practices. Research activities help develop a critical understanding of how social experience impacts the ways that people with diverse experiences access and encounter some of the major fields of practice.

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

Proposed

Consent to Add

No consent required,

Existing

Consent to Add

Department consent required,

Proposed

Consent to Drop

Department consent required,

Existing

Consent to Drop

No consent required,

Prerequisites

1. Complete 1 of the following
 - Enrolled in H-Social Work
 - **Complete all of the following**

- **Students must be in level 3A or higher**
- **Enrolled in**
- **Not Found**
- **,**
- **Not Found**
- **, or**
- **Not Found**

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

Course Requirements (units)

- H-Social Work - Social Work (Bachelor of Social Work - Honours)

[View Program](#)

SWREN 470R - Mental Health Landscapes, Concepts, and Practice Approaches

[Top](#)

Effective Date & Career

Career

Undergraduate,

Proposed

Effective Term and Year
Fall 2026

Existing

Effective Term and Year
Fall 2023

Offering Number

1

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-02-12

Rationale for Change

The new rules reflect the structure of the BSW/BA in SDS double degree. The course description was edited to be consistent with all the course descriptions in the BSW program.

Consultations

We consulted with the Social Development Studies department.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

470R

Course Level

400

Title

Mental Health Landscapes, Concepts, and Practice Approaches

Abbreviated Title
Mental Health Landscapes

Undergraduate Communication Requirement Identifier
No,

Proposed

Description

As a student in this course, you will use an intersectional lens to critically explore social work practice and distress, mental health, and substance use. You will explore, understand, and apply different knowledges, worldviews, and intervention frameworks related to distress, mental health, and substance use, including national policy frameworks and Indigenous approaches to wellness and healing. Key topics in mental health and substance use are considered including trauma and trauma-informed services, harm reduction, and recovery-oriented principles and services as they are relevant to social work practice. You will be introduced to community- and peer-based approaches to distress and recovery.

Existing

Description

This course uses an intersectional lens to critically explore social work practice and distress, mental health, and substance use. Students explore, understand, and apply different knowledges, worldviews, and intervention frameworks related to distress, mental health, and substance use, including national policy frameworks and Indigenous approaches to wellness and healing. Key topics in mental health and substance use are considered including trauma and trauma-informed services, harm reduction, and recovery-oriented principles and services as they are relevant to social work practice. Students are introduced to community- and peer-based approaches to distress and recovery.

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

Proposed

Consent to Add
No consent required,

Existing

Consent to Add
Department consent required,

Proposed

Consent to Drop
Department consent required,

Existing

Consent to Drop
No consent required,

Prerequisites

1. Complete 1 of the following
 - Enrolled in H-Social Work
 - **Complete all of the following**
 - **Students must be in level 4A or higher**
 - **Enrolled in**
 - **Not Found**
 - ,
 - **Not Found**
 - , **or**
 - **Not Found**

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

Course Requirements (units)

- H-Social Work - Social Work (Bachelor of Social Work - Honours)

[View Program](#)

SWREN 471R - Social Work with Older Adults: Critical Issues and Future Trends

[Top](#)

Effective Date & Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Offering Number

1

Proposal Details

Proposal Type

Change,

Academic Unit Approval

2025-02-12

Rationale for Change

The new rules reflect the structure of the BSW/BA in SDS double degree. The course description was edited to be consistent with all the course descriptions in the BSW program.

Consultations

We consulted with the Social Development Studies department.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

471R

Course Level

400

Title

Social Work with Older Adults: Critical Issues and Future Trends

Abbreviated Title

Social Work with Older Adults

**Undergraduate Communication
Requirement Identifier**

No,

Proposed

Description

Focusing on social work practice, policy, and research, in this course, you will examine issues of aging such as health, economic changes, role transition, family dynamics, and losses. You will look at implications of societal issues and the influence of recent Canadian research in the field of aging. You will also examine current innovative and traditional programs for their relevance for future work with populations of older adults.

Existing

Description

Focusing on social work practice, policy and research, the course examines issues of aging such as health, economic changes, role transition, family dynamics and losses. The course also looks at implications of societal issues and the influence of recent Canadian research in the field of aging. Current innovative and traditional programs will be examined for their relevance for future work with populations of older adults.

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

Proposed

Consent to Add

No consent required,

Existing

Consent to Add

Department consent required,

Proposed

Consent to Drop

Department consent required,

Existing

Consent to Drop

No consent required,

Prerequisites

1. Complete 1 of the following
 - Enrolled in H-Social Work
 - **Complete all of the following**
 - **Students must be in level 3A or higher**
 - **Enrolled in**
 - **Not Found**
 - ,
 - **Not Found**

- , or
- **Not Found**

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

Course Requirements (units)

- H-Social Work - Social Work (Bachelor of Social Work - Honours)

[View Program](#)

SWREN 490R - Special Topics in Social Work

[Top](#)

Effective Date & Career

Career

Undergraduate,

Proposed
Effective Term and Year Fall 2026
Existing
Effective Term and Year Fall 2024

Offering Number

1

Proposal Details

Proposal Type

Change,

Rationale for Change

The School of Social Work would like to open a special topics course to accommodate learning related to emerging trends and issues in the social work field. Some topics may require fees.

Consultations

We've consulted with the School of Social Work and with the department of Social Development Studies, as this course will be part of the double degree BA SDS/BSW program, and is currently part of the BSW post degree program.

Course Information

Faculty

Renison University College

Academic Unit

Renison University College

Subject Code

SWREN

Number

490R

Course Level

400

Title

Special Topics in Social Work

Abbreviated Title

Special Topics in Social Work

Undergraduate Communication Requirement Identifier

No,

Description

This special topics course will provide students with opportunities to learn about emerging trends and issues in the field of social work.

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?

Yes,

Total Completions Allowed

03

Allow Multiple Enrol in a Term

No,

Enrolment Rules

Consent to Add

No consent required,

Proposed

Consent to Drop

Department consent required,

Existing

Consent to Drop

No consent required,

Prerequisites

1. Enrolled in H-Social Work,
 - **Not Found**
 - ,
 - **Not Found**
 - , or
 - **Not Found**

Corequisites

No Rules

Antirequisites

No Rules

Course Notes

Proposed

Fee Statement

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

Existing

Fee Statement

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Dependencies

Course Requirements (units)

- H-Social Work - Social Work (Bachelor of Social Work - Honours)

[View Program](#)



**UNIVERSITY OF
WATERLOO**



JOINT ACADEMIC PROGRAM AGREEMENT

BETWEEN

**BEIJING JIAOTONG UNIVERSITY
CHINA**

AND

**UNIVERSITY OF WATERLOO
CANADA**

JOINT ACADEMIC AGREEMENT

This Joint Academic Agreement is made between:

BEIJING JIAOTONG UNIVERSITY, a university established under the direct administration of the Ministry of Education, P.R. China, with its main campus located at No.3 Shangyuancun, Haidian, Beijing, China 100044.
("BJTU")

- AND -

UNIVERSITY OF WATERLOO, a university established by an Act of the Legislature of the Province of Ontario, with its main campus located at 200 University Avenue West, Waterloo, Ontario, Canada N2L 3G1.
("Waterloo")

CONTEXT:

- A. BJTU and Waterloo (singularly an "Institution", or collectively the "Institutions") wish to establish a collaborative Joint Academic Program, under which successful students will be awarded an academic credential from each Institution.
- B. The Institutions recognize the benefits of internationalizing their educational programs through joint academic programming aimed at developing global citizenship and thereby increasing student adaptability, cultural sensitivity, intercultural communication skills, and employability.
- C. Within their interests and abilities, the Institutions agree to (i) the exchange of information necessary for educational activities; (ii) the encouragement of educational activities involving the other Institution; and (iii) the interchange of students.
- D. All contents of the Joint Academic Agreement(s) signed in June 2016 will be replaced with the following revisions;

THEREFORE, both Institutions agree to provide for a 2+1+1 Program (hereinafter defined) under the following conditions:

1. DEFINITIONS

- 1.1 In this Agreement, in addition to terms defined elsewhere in this Agreement, the following terms shall have the following meanings:

"**Academic Year**" refers to a period of twelve months from 1st September until 31st August, unless otherwise stated.

"**Agreement**" refers to this Joint Academic Agreement and any schedules and appendices attached, and includes any amendments the Institutions may agree to in writing.

“**EFAS**” refers to the Renison University College’s English for Academic Success program.

“**ELP**” refers to the English Language Proficiency requirements for admission to the Program.

“**Indemnitees**” refers to any or all of each Institution’s governors, directors, officers, faculty, students, employees, alumni, independent contractors, agents, and volunteers.

“**Participating Student(s)**” refers to the Undergraduate student(s) admitted into, and participating, in the Program.

“**Phases**” refers to periods of time, usually one (1) academic year in length where the Participating Students will be in physical residence in either of the partner countries for the Program. Please note that Participating Students will be dual enrolled at both institutions throughout the Program.

“**Program**” refers to the overall joint academic program operated under this Agreement administered jointly by both Institutions.

“**Signatories**” refers to the individual representatives of the Institutions who have legal signing authority to bind their respective Institutions into the Agreement.

“**Term(s)/Semester(s)**” refers to the broad study segments of the Academic Year at the Institutions.

In regard to BJTU, a two-semester system of study is in place with start dates usually September and February. For full details, refer to the BJTU Academic Calendars:

Undergraduate: <https://bksy.bjtu.edu.cn/Semester.html>

In regard to Waterloo, a tri-term system of study is in place with start dates in September, January, and May. For full details, refer to the Waterloo Academic Calendars:

Undergraduate: <http://ugradcalendar.uwaterloo.ca/page/uWaterloo-Undergraduate-Calendar-Access>

“**Undergraduate**” refers to any student who is in pursuit of a bachelor’s degree that is a minimum of three (3) years in length.

2. SCOPE OF PROGRAM

2.1 Program Description

This program is designed as a four (4) year 2+1+1 whereby Participating Students will take a minimum of twenty (20) undergraduate courses through Waterloo and the required number of courses at BJTU based on BJTU curriculum. The 2+1+1 design of the Program will see Participating Students completing two (2) years in China, followed by one (1) year in Canada, and one (1) final year in China for a total of four (4) academic years. Upon Program completion, Participating Students will be awarded the appropriate undergraduate degree from each Institution.

2.2 Program Phases and Duration

- 2.2.1 **"Phase 1"** refers to the first academic year of the Program where Participating Students will be in residence in China. This Phase will involve Participating Students taking BJTU taught courses as well as Waterloo taught courses at BJTU.
- 2.2.2 **"Phase 2"** refers to the 2nd academic year of the Program where Participating Students will be in residence in China. This Phase will involve Participating Students taking BJTU taught courses as well as Waterloo taught courses at BJTU.
- 2.2.3 **"Phase 3"** refers to the 3rd academic year of the Program where Participating Students will be in residence in Canada. This Phase will involve Participating Students only taking Waterloo taught courses at Waterloo.
- 2.2.4 **"Phase 4"** refers to the 4th academic year of the Program where Participating Students will be in residence in China. This Phase will involve Participating Students taking BJTU taught courses at BJTU. If necessary to ensure Program completion, Participating Students may be required to take a Waterloo taught course while at BJTU during Year 4. This course will be approved on a case-by-case basis by Waterloo and BJTU.

2.3 Institutional Involvement

- 2.3.1 Participating Students at BJTU can study in one of the following eligible BJTU School of Physical Sciences and Engineering Undergraduate regular programs:

Nano Materials and Technology

- 2.3.2 Participating Students at Waterloo can study in one of the following eligible Waterloo Faculty of Science Undergraduate regular programs:

Materials and Nanoscience

- 2.3.3 During Phases 1 and 2, Participating Students will complete English Language courses delivered at BJTU by instructors of Renison University College, which is affiliated with Waterloo.

2.4 Program Quota

- 2.4.1 For each Academic Year of the Program, the minimum and maximum annual program quota is:

Sixty (60) to one hundred and twenty (120) Participating Students. (The final enrollment quota is subject to approval by the Chinese education administrative authorities)

2.4.2 Both Institutions agree to maintain the current minimum annual quota of 60 (sixty) Participating Students. Both Institutions, by mutual written consent, may increase the quota to a maximum of 120 (one hundred and twenty) Participating Students once the necessary resources, facilities, and additional space are available at both institutions.

2.4.3 Once an applicant from high school has met BJTU admission requirements for the program(s) listed in clause 2.3.1 and is enrolled in the Program, they shall be included in the overall quota of Participating Students in that Academic Year, even if they withdraw from the Program for any reason.

2.5 Program Advertisement

BJTU is responsible for making potential Participating Students aware of the Program in order to attract the most qualified students. Waterloo will provide necessary support, including encouraging its instructors who come to China to join BJTU's enrollment promotion team, with expenses covered by BJTU.

2.6 Chinese Ministry Regulation

Both Institutions will jointly develop curriculum for the Program. The curriculum will strictly meet the related regulations and requirements of Regulations on Chinese-Foreign Cooperation in Running Schools and Implementation Methods. Waterloo will provide the curriculum for no less than a minimum of one third of specialized subjects (core subjects) and no less than a minimum of one third of the total subjects delivered in the Program.

Both Institutions will be jointly responsible for the delivery of the courses of the Program. Waterloo will deliver no less than a minimum of one third of subjects. The teaching hours of the specialized subjects delivered by Waterloo will be no less than a minimum of one third of the total teaching hours. BJTU will deliver the remaining subjects of the Program.

According to Chinese Ministry of Education, both Institutions shall establish a Joint Management Committee to facilitate the effective management of the Program and ongoing discussions regarding other collaborative activities. The Joint Management Committee will include four (4) members of BJTU and three (3) members of Waterloo, for a total of seven (7) members. An Institution may change its appointees with written notice (including by email) to the other Institution. The Joint Management Committee shall convene at least one meeting annually, held either at either institution or online (in case of special circumstances).

3. ADMISSIONS

3.1 Potential Participating Students

Participating Students entering Phase 1 at BJTU, are admitted to BJTU through its standard procedures, including China's national college entrance exam, and into any eligible programs listed in clause 2.3.1 at BJTU.

Prior to enrolling in courses for Phase 1 and Phase 2, Participating students must apply to Waterloo through Ontario Universities Application Centre. Participating students will then be enrolled under a letter of permission at Waterloo into eligible programs listed in clause 2.3.2, while completing Phase 1 and 2 at BJTU.

3.2 Admissions Decisions and Requirements for Studying at Waterloo

Admission decisions for Participating Students entering Waterloo for Phase 3 will be made by Waterloo in accordance with this Agreement, subject to Waterloo's policies, procedures, and regulations in effect at the time of said decisions.

Participating Students are required to come to study at Waterloo for Phase 3 (which consists of one (1) academic year) except for those who do not meet the requirements to study in person at Waterloo. Both Institutions will make reasonable efforts to inform prospective Participating Students of the Program about this policy throughout the process of program promotion, recruitment, admission, and beyond.

Participating Students must satisfy the following Waterloo minimum admission requirements before studying at Waterloo for Phase 3:

3.2.1 Academic Requirements

3.2.1.1 Participating Students must have successfully completed Phase 1 and Phase 2 of the jointly recognized curriculum at BJTU, including:

- (i) The completion of all courses taught by Waterloo faculty with a minimum overall average of 60%, a required average for the Waterloo program and using Waterloo's 50% pass/fail scale. Grades from Waterloo faculty are directly recorded into the Waterloo transcript, and are sent for grade conversion based on BJTU's 60% pass/fail for BJTU records; and
- (ii) The completion of all courses taught by BJTU faculty with a minimum overall average equivalent to 65% at Waterloo. This is in alignment with Waterloo's admission requirements for students seeking access to Waterloo Physical Sciences programs.

3.2.2 English Language Proficiency Requirements

3.2.2.1 Where possible, BJTU will encourage all Participating Students to take part in extracurricular English language training and other preparatory activities while at BJTU.

3.2.2.2 In Phase 1 and Phase 2, Participating Students must complete a total of six (6) English language courses taught by Waterloo staff, or Renison University College staff under contract with Waterloo.

3.2.2.3 When possible, Waterloo staff, or Renison University College staff under contract with Waterloo, will examine and interview Phase 1 and Phase

2 Participating Students for English language skills, either in person or through an online platform.

3.2.2.4 Prior to entering Phase 3, Phase 2 Participating Students must also complete an official ELP test with satisfactory scores. Waterloo's required ELP tests and scores are outlined on Waterloo's admissions website: <https://uwaterloo.ca/future-students/admissions/english-language-requirements>

- (i) Participating Students of Phase 2 who do not achieve satisfactory ELP scores, but who have satisfied all other conditions for admission, may meet the minimum required ELP scores to be considered for EFAS. Students must obtain an overall average of 75% in the EFAS program to begin full-time Undergraduate studies in the Program at Waterloo.
- (ii) Participating Students who did not successfully complete EFAS will require additional intensive English language training and may request to have their conditional offer of admission deferred for one term (or two terms maximum) in order to meet ELP criteria.
- (iii) Participating Students who have successfully met the ELP test criteria, are exempt from completing EFAS, although they are strongly recommended to take part in EFAS.
- (iv) Participating Students who qualify for EFAS are responsible for enrolling in and attending EFAS, which begins annually in mid to late July.
- (v) Participating Students are responsible for all costs associated with English language training and assessment.

3.2.3 Transfer Credits

3.2.3.1 In alignment with institution-wide procedures posted on the [transfer credits page](#), Waterloo will grant eligible transfer credits for university courses successfully completed with a minimum overall grade, as required by [Waterloo's Transfer Credit requirements](#), by Participating Students during the Program, to a maximum of 10.0 credit units (or 20 semester courses) plus any required laboratory courses.

3.2.3.2 In the event of a Participating Student passing a prerequisite course at BJTU but failing to meet the minimum grade required for a Waterloo transfer credit, the Participating Student may receive a course override, if necessary, allowing them to take the subsequent required course for degree completion.

3.2.3.3 In the case of the unsuccessful transfer of prerequisite courses, Participating Students are required to retake the courses at either BJTU or Waterloo, program schedule permitting. The retaken courses must meet the minimum grade requirements for transfer credit listed under clause 3.2.3.1.

- 3.2.3.4 Waterloo courses taught at BJTU during Phase 1 and Phase 2 will be considered Waterloo courses and count towards Waterloo's residency requirement.

For more information on Waterloo's residency requirement: <https://uwaterloo.ca/academic-calendar/undergraduate-studies/catalog#/policy/S151BttEa>

3.2.3.5 **Transfer Credit Assessment**

BJTU will provide sufficient course information, including course syllabi, and course codes to allow Waterloo to determine which of its courses qualify for Waterloo transfer credits. BJTU will make reasonable efforts to provide translated course syllabi in English.

3.3 **Application Fees and Form**

Potential Participating Students are responsible for all relevant application fees at each Institution.

3.4 **Application Deadlines and Required Documents**

Waterloo admission deadlines and required supporting documents are subject to change. Waterloo will advise BJTU of relevant deadlines and required supporting documents on an annual basis.

3.5 **Right to Refuse**

Waterloo may refuse Phase 1 and/or Phase 2 Participating Students based on space limitations, fiscal constraints, Participating Student's failure to meet admission standards, and/or external factors such as failure of the Participating Student's to obtain valid travel and study documents.

3.6 **Inclusivity**

Neither Institution will deny participation to, or unlawfully discriminate against, Participating Students on the grounds of race, ancestry, place of origin, ethnic origin, citizenship, creed, colour, age, sex, sexual orientation, gender identity, gender expression, marital status, family status, or disability, or any other factor prohibited by the applicable laws of Canada or Ontario or China.

4. **REGISTRATION**

4.1 **Continuous Registration**

Participating Students are responsible for maintaining continuous registration at both Institutions for the duration of their studies at BJTU and Waterloo.

4.2 Program Length

The Program is designed for completion within four years of consecutive full-time study comprised of three years of full-time residence at BJTU in the first, second, and fourth year of the Program, and one Academic Year at Waterloo in the third year of the Program. The actual length of study in the Program and at an Institution will depend on factors including but without limitation the number of credits successfully completed each Term/Semester and the number of credits recognized as counting towards Program requirements.

4.3 Program Transfer

4.3.1 Participating Students must pursue the approved Program's course of study for the agreed period.

4.3.2 Participating Students are not permitted to apply for transfer to other Waterloo programs or Faculties, unless comparable Joint Academic agreements already exist with BJTU and the transfer is agreed to in writing by both Institutions.

4.4 Full-Time Enrolment

Participating Students must maintain full-time enrolment for the duration of their studies at BJTU and Waterloo.

4.5 Degree Progression

Waterloo is solely responsible for decisions regarding participating students' progression for all Waterloo courses including those taught at BJTU and Waterloo.

4.6 Regulations

Notwithstanding any provisions in Section 9, Participating Students must comply with Waterloo's regulations, including the following (as same may be supplemented and/or updated from time to time):

4.6.1 Academic Regulations contained in the Undergraduate Studies Academic Calendar: <http://ugradcalendar.uwaterloo.ca>, and the Graduate Studies Academic Calendar: <https://uwaterloo.ca/graduate-studies-academic-calendar/>;

4.6.2 Academic and non-academic misconduct regulations contained in Policy 71 – Student Discipline: <https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-71/>;

4.6.3 Ethical conduct of research through the Office of Research: <https://uwaterloo.ca/research/office-research-ethics/>;

4.6.4 Academic integrity through the Office of Academic Integrity: <https://uwaterloo.ca/academic-integrity/>; and

- 4.6.5 All other applicable rules and regulations governing student discipline, academic misconduct, ethical research, and academic integrity.

4.7 Travel and Study Documentation

Participating Students are solely responsible for obtaining and maintaining valid travel and study documents for the duration of their studies. Both parties agree to provide reasonable support, on a case-by-case basis, to assist the students in obtaining their travel documents.

5. TUITION AND EXPENSES

5.1 Tuition and Incidental Fees

- 5.1.1 During Phase 1 and Phase 2 of the Program:
- 5.1.1.1 Participating Students will pay tuition and incidental fees to BJTU according to its usual procedures; and
 - 5.1.1.2 Participating Students will be charged tuition by Waterloo using the international tuition rate in use at the time of tuition calculation as posted on the [Tuition Fee Schedules](#) page for the seven (7) Waterloo-taught courses.
 - 5.1.1.3 Waterloo will provide bursaries to Participating Students to cover tuition for five (5) of the seven (7) courses. Participating Students will be responsible to pay the full cost of the remaining two (2) courses. The tuition fees for the remaining two courses are not included in the tuition specified in Section 5.1.1.1.
 - 5.1.1.4 Waterloo will waive incidental fees during Year 1 and Year 2 on the basis that the Participating Students are resident at and paying incidentals to BJTU.
- 5.1.2 During Phase 3 of the Program:
- 5.1.2.1 Participating Students will be charged tuition and incidental fees by Waterloo using the international tuition rate in use at the time of tuition calculation for international students in the same program and year as posted on the [Tuition Fee Schedules](#) page, in accordance with Waterloo's usual procedures.
- 5.1.3 During Phase 4 of the Program,
- 5.1.3.1 Participating Students will pay tuition and incidental fees to BJTU according to its usual procedures. If Participating Students have to study at Waterloo for any reason during Phase 4, they will pay tuition and incidental fees to Waterloo according to its usual procedures.

5.1.3.2 Subject to Section 5.1.3.3, in the event a Participating Student takes courses required for the degree program at both Institutions, they will pay tuition to both Institutions for courses taken, and will pay incidental fees to the Institution at which they are in residence.

5.1.3.3 If a Participating Student takes courses at the Institution where they are not in residence, and the courses are either over and above those required for the degree or involve repeating a course required for the degree, then incidental fees are payable at both Institutions.

5.2 Health Insurance

Participating Students are responsible for obtaining appropriate personal health and hospitalization insurance coverage (and other insurance, if required) while in residence at the Host Institution:

5.2.1 In regard to Waterloo, Participating Students are required to enrol in, and maintain coverage through, the University Health Insurance Plan (UHIP) and Waterloo's student health and dental plan or equivalent.

5.3 Expenses

Neither Institution is responsible for expenses incurred by Participating Students or visiting faculty and staff, including, but not limited to, travel/study documents, living, accommodation, medical care, ELP training, and personal expenses, except as may be arranged for specific cases, or such grants explicitly agreed upon by the Institutions.

5.3.1 Waterloo will be responsible for travel and living expenses of Waterloo staff, or Renison University College staff under contract with Waterloo, who visit BJTU for the purposes of assessment under subsection 3.2.2.3.

5.3.2 The cost of the English courses covered in Clause 3.2.2.2 shall be equally shared by BJTU and Waterloo. The payment standard for English courses shall be subject to dynamic adjustment based on the variables per academic year including but not limited to the number of courses offered, total instructional hours, number of enrolled students, class allocation arrangements, and employment costs for English instructors and etc. The specific tuition amount shall be determined by Renison University College, affiliated with Waterloo, by semester and officially invoiced to the School of Physical Science and Engineering, BJTU and the Faculty of Science, Waterloo. All taxes (if any) arising from BJTU's remittance to Renison University College, affiliated with Waterloo, shall be paid by BJTU on behalf of Renison.

5.4 Facilities and Services

Waterloo facilities and support services will be available to Participating Students on the same conditions and, where applicable, at the same incidental fees as for domestic students.

5.5 Accommodation

Based on BJTU's standardized accommodation allowance framework, BJTU shall provide appropriate accommodation for the instructors of both Waterloo Faculty of Science and Renison who will deliver courses at BJTU in China.

Waterloo will not be responsible for providing accommodation for Participating Students, but may offer advice and assistance in securing housing during their participation in the Program.

5.5.1 Participating Students who receive a formal offer of admission for phase 3 are eligible to apply for, but are not guaranteed, Waterloo accommodation. More information on both Waterloo's on-campus accommodation and private housing can be found on Waterloo's Housing and Residences webpage: <https://uwaterloo.ca/housing/>.

5.6 Entrance Awards

At Waterloo's discretion, Participating Students admitted into Phase 3 may be awarded Waterloo entrance awards.

5.7 Scholarships and Bursaries

While in residence at Waterloo during Phase 3, Participating Students are entitled to apply for any Waterloo scholarship or bursary funds for which they are eligible.

6. RECORDS

6.1 Official Records and Transcripts

Each Institution will maintain official records for Participating Students during their enrolment in the Program and Terms/Semesters of residence.

6.1.1 Participating Students will be issued official transcripts by each Institution as appropriate. In regard to Waterloo, Participating Students are responsible for requesting official transcripts and any associated costs.

6.1.2 Should translations of official transcripts and/or other documents be required, Participating Students shall be responsible for this requirement and any associated costs.

6.2 Privacy and Data Sharing

Subject to applicable laws or regulations regarding privacy and access to student information, each Institution will transmit to the other:

6.2.1 Grades for all courses completed or attempted by Participating Students;

6.2.2 Disciplinary case summaries when a penalty has been imposed; and

Each Institution will use reasonable efforts to obtain Participating Students' consent to the release of information described in this Section.

6.3 **Curricular Co-operation**

Where possible, BJTU will incorporate courses, information and materials from Waterloo into its curricula in order to help Participating Students to meet Waterloo prerequisites for upper year courses.

6.3.1 Waterloo and BJTU will work together to facilitate curriculum compatibility in support of the Program.

6.4 **Degree Completion**

6.4.1 In regard to BJTU, the appropriate BJTU credential will be issued to Participating Students who successfully fulfill all BJTU degree requirements, including requirements relating to enrolment, progression, and coursework.

6.4.2 In regard to Waterloo, the appropriate Waterloo Honours Bachelor's Degree will be issued to Participating Students who successfully fulfill all Waterloo degree requirements, including requirements relating to enrolment, progression, and coursework.

6.5 **Program Non-Completion**

BJTU agrees to accept returning Participating Students who cannot, for academic or other reasons, continue their study at Waterloo. For any Participating Student who returns having not completed Waterloo degree requirements, BJTU will assess successfully completed Waterloo courses for possible credit transfer, so that these courses may count towards degree completion at BJTU.

7. **COORDINATOR(S)**

7.1 **Administrative Coordinator**

Each Institution agrees to appoint an Administrative Coordinator for the Program to serve as the contact person for matters related to admissions and the academic progression of Participating Students

7.1.1 In regard to BJTU, the Administrative Coordinator of this Program is:

Coordinator of BJTU-UW Program in Nanomaterials and Technology
School of Physical Sciences and Engineering, BJTU
Phone: 86-10-51688700
Email: zhaoying@bjtu.edu.cn

7.1.2 In regard to Waterloo, the Administrative Coordinator of this Program is:

Dual Degree Admissions Specialist
Registrar's Office
Telephone: +1 (519) 888-4567, ext. 41768
Email: registrar.jointacademic@uwaterloo.ca

7.2 Partnership Coordinator

Each Institution agrees to appoint a Partnership Coordinator to serve as the contact person for matters related to the institutional level relationship and other partnership details.

7.2.1 In regard to BJTU, the Partnership Coordinator for this Agreement is:

Nan Ding
International Relations Manager
Office of International Affairs, BJTU
Phone: 86-01-51688342
Email: dingnan@bjtu.edu.cn

7.2.2 In regard to Waterloo, the Partnership Coordinator for this Agreement is:

International Relations Manager
Waterloo International
Phone: +1 (519) 888-4567
Email: international.relations@uwaterloo.ca

7.3 Faculty-level Coordinator

Each Institution may appoint a Faculty-level Coordinator. The Faculty-level Coordinator will work with the Administrative Coordinator to ensure that Participating Students are progressing appropriately.

7.3.1 In regard to BJTU, the Faculty Coordinator of this Program is:

Jiyong Peng
Associate Dean Undergraduate Academics and International Programs
School of Physical Sciences and Engineering, BJTU
Phone: 51688313
Email: jypeng@bjtu.edu.cn

7.3.2 In regard to Waterloo, the Faculty Coordinator of this Program is:

Chris Houser
Dean of Science
Faculty of Science
Phone: 519-888-4567 ext. 46550
Email: chouser@uwaterloo.ca

8. NOTICES

8.1 Any notice to be given under this Agreement shall be in writing and addressed to the appropriate Contact for Notices.

8.1.1 In regard to BJTU, the Contact for Notices of this Agreement is:

Manager, International Agreements
Office of International Affairs, BJTU
No.3 Shangyuancun, Haidian, Beijing, 100044
Email: bjtu-intl@bjtu.edu.cn

8.1.2 In regard to Waterloo, the Contact for Notices of this Agreement is:

Manager, International Agreements
Waterloo International
University of Waterloo
200 University Avenue West
Waterloo, Ontario, Canada, N2L 3G1
Email: international.agreements@uwaterloo.ca

8.2 Notice will be deemed given when verified by written receipt if sent by courier, or electronic log if sent by email.

9. INTELLECTUAL PROPERTY

9.1 During Phase 3, when a Participating Student is enrolled at Waterloo, Waterloo's Intellectual Property Policy will apply to the Participating Student. For further clarity, when a Participating Student is physically in Canada for academic studies at Waterloo, Waterloo's Intellectual Property Policy will apply to a Participating Student during the Program. Notwithstanding the foregoing, to the extent Waterloo's Intellectual Property Policy conflicts or is inconsistent with intellectual property laws that apply to a Participating Student studying remotely from an alternate jurisdiction, such intellectual property laws shall apply instead of the Policy, but only to the extent of the conflict or inconsistency.

9.1.1 In regard to Waterloo, ownership of intellectual property is governed by Policy 73 – Intellectual Property Rights, as it is amended from time to time, which operates under the principle that intellectual property rights created in the course of teaching and research activities belong to the creator. Where a Participating Student wishes to enter into an agreement that waives, limits or assigns intellectual property rights, that agreement must be reviewed and approved by Waterloo's Vice-President, Research & International or delegate and, if graduate students are parties to the research, Waterloo's Associate Vice-President, Graduate Studies & Postdoctoral Affairs, or delegate. Waterloo's Policy 73: <http://www.secretariat.uwaterloo.ca/Policies/policy73.htm>.

9.1.2 In regard to BJTU, BJTU adheres to the "regulations on the administration of intellectual property protection in institutions of higher education" and the "measures for the administration of intellectual property at Beijing Jiaotong University (pilot implementation)" in accordance with the relevant administrative measures, any invention-creation or other technological achievement that is accomplished while fulfilling tasks assigned by the university or its affiliated entities, or primarily by utilizing the material and technological resources of BJTU or its affiliated entities, shall be deemed as service invention-creations or service technological achievements of BJTU commencement, term, and termination.

9.2 **Effective Date**

This Agreement will be effective from the date of the last required signature on the signing page of this Agreement and will be operationalized to facilitate the entry of Participating Students into BJTU for the September (Fall) term of 2026.

9.3 **Renewal, Extension, and Amendment**

This Agreement may be renewed, extended, or amended by written mutual agreement of the Institutions.

9.4 **Term and Termination**

This Agreement will commence on the Effective Date and terminate on August 31, 2034. This agreement may be terminated at any time upon the written request of either Institution with at least six (6) months' notice in accordance with the following provisions, provided such termination shall not affect any other existing contracts:

9.4.1 The terminating Institution will deliver a signed notice of termination to the designated Contact for Notice of the non-terminating Institution, which notice will expressly state it is a "Notice of Termination".

9.4.2 If an Institution elects to terminate this Agreement, all Program arrangements will cease on the effective date of termination, save and except for arrangements regarding Participating Students in the process of completing the Program at such time. The Institutions agree to reasonably permit any such Participating Student to complete their Program on the terms and conditions of this Agreement.

- 9.5 This Program may require approval from the Senate at Waterloo prior to the admission and enrolment of Participating Students.

10. OTHER TERMS AND CONDITIONS

10.1 Entire Agreement

This Agreement constitutes the entire agreement between the Institutions pertaining to the subject matter of this Agreement and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, of the Institutions.

10.2 Non-Exclusivity

This agreement in no way restricts the Institutions from participating in similar activities or arrangements with others.

10.3 Independent Institutions

Nothing contained in this Agreement should be construed to create or imply any joint venture, partnership, principal-agent, trust, or employment relationship between the Institutions, and an Institution may not make, or allow to be made, any representation that any such relationship exists between the Institutions. An Institution shall not have the authority to act for, or to incur any obligation on behalf of, the other Institution, except as expressly provided for in this Agreement.

10.4 Confidentiality

Each Institution recognizes that, in connection with this Agreement, it may receive information regarding the business, affairs, operations and finances of the other Institution and personal information of Participating Students (collectively, "**Confidential Information**"). Except as set out in this Agreement, each Institution agrees to not disclose any Confidential Information provided to it by the other Institution to any other person or party and agrees to use such Confidential Information solely for the limited purpose for which it was provided. Each Institution shall make all reasonable security arrangements necessary to protect the Confidential Information provided to it by the other Institution and will not copy or disclose the Confidential Information to a third party without the prior written consent of the Institution that provided it or as may be required by applicable law.

10.5 Force Majeure

Neither Institution shall be in breach of this Agreement if it is unable to carry out any obligation hereunder for any reason beyond its reasonable control (a "**Force Majeure Event**") including without limiting the generality of the foregoing, any acts of God, new legislation or acts of a governmental authority, resource shortages, war, fire, flood, drought, failure of power supply, civil commotion, employee action, epidemic, outbreak of disease or public health emergency (including as a result of any measures imposed by any governmental authority in connection with Covid-19), provided that the non-performing Institution shall (i) notify the other Institution as soon as reasonably possible following the occurrence of a Force Majeure Event; and (ii) make best efforts to seek to resume full performance as soon as it is reasonably possible to do so.

10.6 News Releases and Publications

Each Institution grants to the other Institution a non-exclusive, non-transferable, royalty-free license to use, reproduce, publish and display that Institution's logo and name during the term of this Agreement solely (i) in conjunction with the materials created during the term of, and in connection with, this Agreement by either, or both, of the Institutions; and (ii) in conjunction with marketing and promotion of the Program described in this Agreement. All such displays of the logo and name of one Institution by another will comply with reasonable guidelines that may be provided by either Institution to the other Institution from time to time.

10.7 Research Security Policies

Both Institutions agree to comply with current Government of Canada and Government of Ontario research security policies during the Term of this Agreement.

10.8 Governing Law

This Agreement, and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) (each, a "Dispute"), shall be governed by, and construed in accordance with, the laws of the Province of Ontario and the laws of Canada applicable therein.

10.9 Dispute Resolution

10.9.1 In the event of any Dispute, the Institutions shall first meet and use reasonable efforts to resolve the Dispute by negotiation between the Institutions acting in good faith.

10.9.2 If a Dispute is not resolved by good faith negotiations, then the Dispute will be finally determined by a sole arbitrator under the *Arbitration Act, 1991* (Ontario) appointed in accordance with such Act. The seat, or legal place, of arbitration shall be Toronto, Ontario.

10.10 Indemnification

Each Institution (the "Indemnifying Institution") shall indemnify and hold the other Institution (the "Indemnified Institution") harmless in respect of any claim, demand, action, investigation, proceeding, cause of action, damage, loss, injury, cost, liability, or expense, which may be made or brought against the Indemnified Institution or which the Indemnified Institution or its Indemnitees may suffer or incur as a result of or arising out of:

10.10.1 Any breach or non-fulfillment of any representations, warranties, covenants, or other contractual obligations under this Agreement on the part of the Indemnifying Institution; or

10.10.2 Any negligence or willful misconduct on the part of the Indemnifying Institution or anyone for whom the Indemnifying Institution is responsible at law, except intellectual property.

Except for obligations arising due to the foregoing indemnify obligations, neither Institution will be liable for any indirect, special, incidental, consequential, punitive or exemplary damages or damages for loss of revenue or profit arising in any way from a breach of this Agreement or the performance of an Institution's duties and responsibilities under this Agreement.

The foregoing indemnity shall survive the termination of this Agreement notwithstanding any provisions of this Agreement to the contrary.

10.11 Insurance

During the term of this Agreement, each Institution shall maintain professional liability insurance and comprehensive general liability insurance, or equivalent protections, for itself, its students, faculty, staff, and employees, as applicable, on a basis and in amounts sufficient to provide coverage in respect of all matters related to this agreement, and in no event, less than CAD five million dollars (\$5,000,000.00), or equivalent, per occurrence.

BJTU shall provide Waterloo professional liability and comprehensive liability certificate(s) of insurance, with at least CAD five million dollars (\$5,000,000.00), or equivalent, per occurrence limit, including the other institution as an additional insured.

10.12 Translations

This Agreement is written in both English and Chinese. In the event of any discrepancies or ambiguities in interpretation between the English and Chinese versions, the Institutions shall discuss in good faith to resolve the differences in a manner that reflects their mutual intent and understanding at the time of signing. In case no agreement can be reached, the Agreement shall be terminated in accordance with the provisions of Section 9.4.

10.13 Counterparts

The Agreement shall be executed in English and Chinese, and may be executed in two (2) counterparts, each of which is deemed as original, but which taken together will constitute one and the same Agreement. This Agreement may be signed digitally and/or electronically by using electronic signature technology (i.e. ConsignO, DocuSign, or other electronic signature technology). Both Institutions hereto further acknowledge and agree that this Agreement may be transmitted digitally and/or electronically, which will constitute due and sufficient delivery of such counterpart, provided such signing and transmission processes ensure a reasonable level of reliability and security.

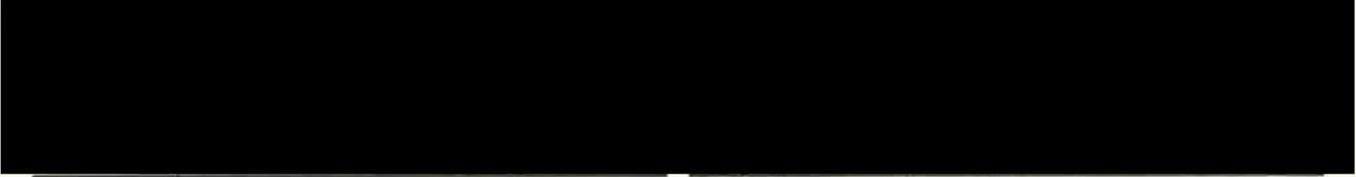
[Signature Page follows]

In signing hereunder, the Signatories affirm their legal authority to bind their respective Institutions into, and execute, this Agreement on the dates shown hereunder.



BEIJING JIAOTONG UNIVERSITY

UNIVERSITY OF WATERLOO



Prof. Yu Zujun

Prof. Vivek Goel

President

President



Prof. Tang Aiwei

Prof. Chris Houser

Dean, School of Physical Sciences and Engineering

Dean, Faculty of Science

Date:

Date:





Articulated Admission and Transfer Credit Agreement

between

**University of Waterloo
200 University Avenue West
Waterloo, Ontario, Canada N2L 3G1**

and

**Sault College
443 Northern Avenue East
Sault Ste. Marie, Ontario, Canada P6B 0A9**

WHEREAS, University of Waterloo and Sault College have developed this transfer credit agreement (the “Agreement”) with the purpose of facilitating the educational mobility and transfer of students from Sault College to the University of Waterloo.

WHEREAS, University of Waterloo and Sault College enter into this Agreement as cooperating, equal partners who shall maintain the integrity of their separate programs while working to ensure a smooth curriculum transition for interested and qualified students.

NOW THEREFORE in consideration of the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficient of which is hereby acknowledged, the parties covenant and agrees as follows:

Definitions

In this Agreement, the following terms shall have the following meanings:

“UWaterloo” shall mean the University of Waterloo.

“Sault College” shall mean Sault College of Applied Arts and Technology

“GEOGAVIA” shall mean Geography and Aviation at UWaterloo

“SCIAVIA” shall mean Science and Aviation at UWaterloo

“ACPO” shall mean the Aviation Commercial Pilot Operations diploma program at Sault College

Article I Organization Information

Sending Organization

Sault College

School of Aviation and Mathematics

Aviation Commercial Operations (two (2) year Ontario College Diploma)

Receiving Organizations

UWaterloo

Faculty of Environment, Department of Geography and Environmental Management
Geography and Aviation (four (4) year Honours Bachelor of Environment)

UWaterloo

Faculty of Science

Science and Aviation (four (4) year Honours Bachelor of Science)

Article II Terms of Agreement

This Agreement shall be effective from the date of signing and expires on **30 June 2028**, unless renewed in accordance with the “**Terms for Renewal or Cancellation**” section within this Agreement.

The terms of cooperation for each specific activity implemented under this Agreement, including any financial aspects, will be mutually discussed and signed off by official representatives of both institutions prior to the initiation of that activity.

It is not the intent of this Agreement to create a legally binding partnership, and the participating institutions do not intend to impose financial obligations upon one another. Neither institution has the right to assign any duty or responsibility arising from the Agreement to another institution or individual without the written consent of the other participant.

Intellectual Property Rights

The two institutions here named have independent intellectual property policies:

[University of Waterloo](#)

[Sault College](#)

Students participating in this pathway will fall under the IP policy of the institution that they are attending in accordance with the schedule of attendance at the two institutions.

Insurance

- a) Sault College is responsible for obtaining, maintaining in force and paying the premiums for the following policies of insurance during the Term of this Agreement:
 - i) Commercial General Liability Insurance providing coverage of at least \$5,000,000.00 per occurrence for bodily injury, death, and damage to property, including loss of use thereof, which covers Sault College operations including acts of omission of Sault College employees in which policy UWaterloo shall be an additional insured and the policy shall include a cross-liability endorsement.
 - ii) Malpractice/Professional Liability insurance coverage to a limit of not less than \$5,000,000.00 per occurrence. Such insurance shall insure against claims for damages arising out of or by reason of any acts, errors and omissions falling within the ambit of this Agreement for which Sault College is directly or indirectly responsible.
 - iii) Business interruption insurance to cover costs related to any interruption in its business, and any other general insurance deemed necessary by Sault College in accordance with Applicable Laws.
 - iv) Sault College shall provide UWaterloo with a copy of its commercial general, malpractice and professional liability certificate(s) of insurance prior to the Commencement Date, including UWaterloo as additional insured but only with respect to liability arising out of the operations of Sault College
- b) In the event that insurance coverage satisfactory to UWaterloo's insurers cannot be obtained by Sault College, UWaterloo, in its sole and absolute discretion, may terminate this Agreement. UWaterloo will act reasonably in determining satisfactory insurance coverage, having due regard to industry standards.
- c) UWaterloo is responsible for obtaining, maintaining in force and paying the premiums for the following policies of insurance during the Term of this Agreement:

- i) Commercial General Liability insurance which shall be subject to limits of not less than \$5,000,000.00 inclusive per occurrence for bodily injury, death and damage to property, including loss of use thereof.
 - ii) Malpractice/Professional Liability insurance coverage to a limit of not less than \$5,000,000.00 per occurrence. Such insurance shall insure against claims for damages arising out of or by reason of any acts, errors and omissions falling within the ambit of this Agreement for which student(s) or Faculty Members are directly or indirectly responsible. Sault College shall be an additional insured, and the policy shall include a cross-liability endorsement.
 - iii) UWaterloo shall provide Sault College with a copy of its commercial general, malpractice and professional liability certificate(s) of insurance prior to the Commencement Date, including Sault College as additional insured but only with respect to liability arising out of the operations of UWaterloo.
- d) Sault College and UWaterloo shall advise each other immediately when there is any restriction in coverage or limits material to the matters in this Agreement. If such occurs, the parties agree to meet and use all reasonable means to continue this Agreement.

Indemnity

- a) Sault College shall indemnify and hold UWaterloo, its governors, officers, faculty, students, employees, independent contractors, and agents harmless in respect of any claim, demand, action, cause of action, damage, loss, injury, cost, liability or expense, which may be made or brought against UWaterloo or which UWaterloo may suffer or incur as a result of or arising out of:
 - i) Any breach or non-fulfillment of any representations, warranties, covenants, or other contractual obligations under this Agreement or any the part of Sault College;
or
 - ii) Any negligence or willful misconduct on the part of Sault College or anyone for whom Sault College is responsible at law.
 - iii) Sault College agrees that the foregoing indemnity shall survive the termination of this Agreement notwithstanding any provisions of this Agreement to the contrary.
- b) UWaterloo shall indemnify and hold Sault College, its directors, officers, students, employees, independent contractors, agents, and volunteers harmless in respect of any claim, demand, action, cause of action, damage, loss, injury, cost, liability or expense,

which may be made or brought against Sault College or which Sault College may suffer or incur as a result of or arising out of:

- i) Any breach or non-fulfillment of any representations, warranties, covenants, or other contractual obligations on the part of UWaterloo, or
- ii) Any negligence or willful misconduct on the part of UWaterloo or anyone for whom UWaterloo is responsible at law.
- iii) UWaterloo agrees that the foregoing indemnity shall survive the termination of this Agreement notwithstanding any provisions of this Agreement to the contrary.

Miscellaneous

Items not covered by this Agreement may be determined and negotiated separately by both institutions without abrogating this Agreement. This Agreement does not prevent additional agreements between the institutions.

The participating institutions will ensure that all in-progress articulation activities will have the opportunity to be completed within a reasonable time frame; however, no new articulations will be undertaken after the expiration date.

Terms for Renewal or Cancellation

This agreement will be reviewed annually in March by a committee to ensure that the academic standards of each institute are being adequately met. The committee will be comprised of representation from the partner institutes and shall ensure that no program or policy changes have occurred that may affect the accuracy of this Agreement and agree on necessary changes to the Agreement. Two (2) members from both institutes shall be appointed. The committee shall conduct a minimum of one (1) meeting per year and may include participation by video or audio conferencing.

Beginning in March 2025, and in March every three (3) years thereafter for which this Agreement has been extended, the committee will review performance pursuant to this Agreement. As part of the review, the committee shall incorporate an evaluation of cooperation and a recommendation of necessary changes (where applicable). As a result of the review, the parties may agree to extend this Agreement for an additional three years, beginning on 1 July of the then current year and expiring on 30 June of the third year thereafter. Such extension of this Agreement may be done with or without amendment. If no agreement is reached on extension of this Agreement by 15 June of the then current year, then this Agreement shall expire on 30 June of the then current year.

Any amendments to and renewals of this Agreement shall be done with a view to the integrity of each party's academic programs, as well as to improve the processes and student articulation implemented under this Agreement, with a view overall to student success. The Agreement may be amended only in writing signed by all parties.

Termination of the agreement, with or without statement of the reasons for termination may be made in writing at any time and shall incorporate a six (6) month notice.

The parties agree that in the event of revision, expiration or termination of this Agreement, students enrolled in the program will have the opportunity to complete the program under the terms of this Agreement.

Program and Policy Changes

Sault College and UWaterloo agree to communicate any substantive changes at the annual review to their program including changes in admission standards, graduation requirements, curriculum, course offerings, length of program, hours of instruction, delivery method, co-op or work-integrated learning (where applicable). Substantive change is any change that alters learning outcomes, admission or graduation requirements, or delivery.

Sault College and UWaterloo agree to communicate any policy changes at the annual review which may affect the agreed upon relationship. Such policy changes will be considered during discussions at the time this Agreement is reviewed, as referred to above.

Organizational Contacts

The below named individuals are responsible for the development, maintenance and coordination of the Agreement. All notices or communications should be directed to the below named persons.

Sending Organization:

Shelby McClelland
Pathways Coordinator
Sault College of Applied Arts and Technology
443 Northern Avenue,
Sault Ste. Maire, ON P6B4J3

Cc:

Greg Farish
Dean, Aviation and Mathematics
Sault College of Applied Arts and Technology
443 Northern Avenue.

Sault Ste. Marie, ON P6B4J3

Receiving Organization

Julie Pocock, MA
Manager, Admissions Pathways
University of Waterloo
200 University Avenue West
Waterloo, ON, N2L 3G1
Phone: 519-888-4567 ext. 46479
Email: jpocock@uwaterloo.ca

Article III Agreement Information

Type of Agreement

Articulated Admission and Transfer Credit Agreement.

Admission Requirements

This agreement recognizes that a student who has completed a diploma at Sault College in the two (2) year RSA program, with a minimum average of 75%, including:

For Geography and Aviation:

- a minimum of 70% in an acceptable English writing course (CMM 115); and
- a Math course (MTH 612, MTH 613, MTCH 626 or MTH 654)

For Science and Aviation

- a minimum of 70% in an acceptable English writing course (CMM 115); and
- a minimum of 70% in Advanced Functions (MTH 613); and
- a minimum of 70% in Calculus and Vectors (MTH 626); and
- any two of: Grade 12 U or M Biology, Grade 12 U or M Chemistry, Grade 12 U or M Earth and Space Science, Grade 12 U or M Mathematics of Data Management, Grade 12 U or M Physics; Sault College Science and Nature (NRT 141); Sault College Intro to Soil Science (NRT 257)

will be eligible for admission to the University of Waterloo with transfer credits as outlined in this Agreement.

Using the Undergraduate application available through the Ontario Universities' Application Centre (OUAC), students will apply to the GEOGAVIA (code WEV) or SCIAVIA (code WSV) at UWaterloo. Sault College applicants will be required to submit their high school transcript and all post-secondary transcripts, including their final Sault College transcript showing graduation from the program.

Each student's application and unique academic background will be evaluated on an individual basis in accordance with UWaterloo's undergraduate admissions policies.

Transfer Credits

Transfer credits are evaluated for Sault College courses in which a minimum grade of 70% has been attained. A maximum of 10.0 units (20 courses) may be transferred to a four-year degree in the Faculty of Environment or the Faculty of Science at the University of Waterloo.

For purposes of this agreement, students are to do the training for their Multi-Engine and Group 1 Instrument Flight Rules (GRP 1 IFR) ratings at the University of Waterloo's flight training partner.

ACPO elective courses as well as courses completed in other Sault College programs and at other institutions, are reviewed by UWaterloo on an individual basis, and applicants may be required to submit detailed syllabi for these courses during the evaluation process.

If ACPO students transfer to any program other than GEOGAVIA or SCIAVIA at UWaterloo, admission and transfer credits will be reassessed, and transfer credits may be modified.

The following chart provides an estimate of transfer credits available from Sault College's ACPO diploma program. If the curriculum changes at UWaterloo or Sault College, transfer credit equivalencies will be reviewed and adjusted as appropriate:

Sault College Course Code(s)	Sault College Course Title	UWaterloo Course Code(s)	Unit Weight
Academic Courses			
CMM115	Communications I	ENGL 109	0.5
CMM210	Technical Communication	ENGL 210F	0.5
ELR104	Engineering	SCI 1XX	0.5
ELN 224	Engineering	GENE 2XX	0.5

REC 106	Fitness and Lifestyle Management	HEALTH 1XX	0.5
MTH 613+MTH 626	Technical Mathematics + Calculus	MATH 127	0.5
MTH 654	Technical Mathematics	MATH 128	0.5
GEN 100	Global Citizenship	ENVS 195	0.5
MCH 111+MCH 298	Applied Mechanics	SCI 1XX	0.5
AVT 119 +AVT 248 (part)	Human Factors in Flight	AVIA 210	0.5
AVT 123 + AVT 248 (part) + AVT 254	Aviation Safety	AVIA 317	0.5
AVF115 + AVF117 + AVF119 + AVT123	Introduction to Aviation	AVIA 100	0.5
Total academic units transferred			6.5
Flight / Professional Pilot Program Courses			
AVF 111+AVF115+AVF 117+AVF122+AVT123 + AVT 125	Meteorology I&II; Airframes, Engines and Zlin Systems; Flight Theory and Operations; Navigation I&II; Navigation I&II, Air Law I; Air Law II	AVIA 121	0.5
AFT 111 + AVF 117	Meteorology I&II; Flight Theory & Operations	AVIA 141 + AVIA 142	0.25 + 0.25
AVF 241 + AVF 242 + AVF 245 + AVT 125 + AVT 247 + AVT 254	Meteorology III; Navigation III; Airframes and Engines II; Air Law II; General Knowledge for Aviation; Navigation III	AVIA 222 + AVIA 223	0.5 + 0.5
AFT 120 + AFT 241 + AVF 242	Flight Training I; Flight Training III; Navigation III	AVIA 244	0.25
AVF 245 + AVT 123 + AVT 248 + AVT 366	Airframes and Engines II; Air Law I; Human Factors in Flight; Aircraft Systems Preparation for Flight	AVIA 245	0.25
Total Flight/Professional Pilot Units transferred:			2.0
Aviation Milestones transferred:			
AFT 120	Flight Training I	Aviation Milestone 1	NA
AFT 131	Flight Training II	Aviation Milestone 2	NA
AFT 242	Flight Training III NR	Aviation Milestone 3	NA
AFT 133 + AFT 134	Flight Training II CPL Cross Country; Flight Training II Cross Country Flight	Aviation Milestone 4	NA
AFT 241 + AFT 250	Flight Training III; Flight Training IV	Aviation Milestone 5	NA
Total units transferrable from the ACPO diploma:			8.5

Credits that Must be Achieved at the Receiving Organization

As per UWaterloo's [Bachelor of Environmental Studies – Honours in Geography and Aviation](#) and [Bachelor of Science – Honours in Science and Aviation](#), the two four (4) year degrees require the completion of a minimum of 40 courses of 0.5-unit weight, for a minimum total of 20 units. A maximum of 6.5 100-level units may be counted toward the 20 units; program requirements will result in ACPO transfer students completing more than 20 total units to meet all degree requirements.

Credential(s) to be Granted on Successful Completion of all Required Components

- Honours Bachelor of Environmental Studies (Four (4) year program)
 - Geography and Aviation

or

- Honours Bachelor of Science (Four (4) year program)
 - Science and Aviation

Article IV Communication and Marketing

Communication

The Pathways Coordinator, Shelby McClelland, shall be responsible for the ongoing communication and monitoring of the Agreement at Sault College. UWaterloo will designate an individual responsible for this Agreement at UWaterloo.

These individuals will work together to develop marketing and recruitment strategies for this Agreement. Furthermore, the two individuals will co-ordinate annual pathway reviews.

Positioning

Opportunities pursuant to this Agreement will be advertised in the respective UWaterloo and Sault College promotional materials. Sault College and UWaterloo will exchange, where applicable, such items as marketing publications, academic calendars, student guides, housing information, course outlines, and/or research materials.

Each party will obtain the other's consent before issuing any official media releases and/or marketing or promotional materials relating to this Agreement and/or incorporating the other party's name or logo(s).

Sault College agrees to inform its students of this Agreement in order to provide opportunity for eligible graduates of the ACPO program to apply to the GEOGAVIA or SCIAVIA programs and apply for transfer of credit. Sault College agrees to set aside class time for promotion of this Agreement during the winter term of the first and second years of the ACPO program.

Article V General

- a) Any provision of this Agreement which expressly states it is to continue in effect after termination or expiration of this Agreement, or which by its nature would survive the termination or expiration of this Agreement, shall do so.
- b) Nothing contained in this Agreement shall be construed to create or imply a joint venture, partnership, principal-agent, or employment relationship between the parties.
- c) This Agreement shall be governed by and interpreted in accordance with the laws of the Province of Ontario, without regard to its laws regarding conflict of laws.

- d) This Agreement, including Appendices attached hereto, constitutes the entire agreement between the parties pertaining to the subject matter hereof. There are no oral or written warranties, representations, or other agreements between the parties in connection with the subject matter except as specifically set forth or referred to in this Agreement.
- e) No amendment or waiver of this Agreement will be binding unless executed in writing by the parties to be bound by it.
- f) No waiver of any provision of this Agreement will be deemed to be or constitute a waiver of any other provision, nor will any such waiver constitute a continuing waiver unless expressly provided.
- g) This Agreement shall be binding on the parties and their respective personal representatives, executors, administrators, successors, and assigns.
- h) The Agreement may be executed in two (2) or more counterparts, each of which is deemed as original, but which taken together will constitute one and the same Agreement. This Agreement may be executed by exchanging PDF signatures, digitally and/or electronically by using industry standard electronic signature technology (i.e., Consigno, DocuSign, or other electronic signature technology). The parties hereto further acknowledge and agree that this Agreement may be transmitted digitally and/or electronically, which will constitute due and sufficient delivery of such counterpart, provided such signing and transmission processes ensure a reasonable level of reliability and security.

Signatories

This Agreement is effective upon signature of all parties. The signatories hereby warrant that they have express and sufficient authority to execute this Agreement on behalf of the institutions on whose behalf they have signed.

This Agreement may be executed and delivered electronically and in any number of counterparts (by original, facsimile or electronic pdf) and all such counterparts taken together shall be deemed to constitute one and the same instrument.

For University of Waterloo

Dr. Thomas Duever
Vice-President Academic and Provost
University of Waterloo

I have authority to bind the Corporation.

Date

For Sault College

Sherri Smith
Interim President
Sault College

I have authority to bind the Corporation.

Date

Dr. Bruce Frayne
Dean, Faculty of Environment
University of Waterloo

I have authority to bind the Corporation.

Date

Greg Farish
Dean, Aviation and Mathematics
Sault College

I have authority to bind the Corporation.

Date

Dr. Chris Houser
Dean, Faculty of Science
University of Waterloo

I have authority to bind the Corporation.

Date

For Approval**Regular Agenda**

To:	Senate Undergraduate Council
Sponsor/Presenter:	David DeVidi, Associate Vice-President, Academic
Date of Meeting:	February 4, 2026
Agenda Item Identification:	6.1. SUC Curriculum Subcommittee Report: Regular Agenda for Approval

Recommendation/Motion

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

- i. Faculty of Arts - Regular Agenda
To recommend to SUC that Senate approve the major plan modifications for the Faculty of Arts School of Accounting and Finance, Renison University College, Department of Communication Arts, Department of Economics, and regulation changes, effective September 1, 2026, as presented.
- ii. Faculty of Engineering – Regular Agenda
To recommend to SUC that Senate approve the major plan modifications for the Faculty of Engineering Biomedical Imaging Technologies Specialization, Diploma in Business and Entrepreneurship, and regulation changes, effective September 1, 2026, as presented.
- iii. Faculty of Engineering – Regular Agenda (SYDE)
To recommend to SUC that Senate approve the submitted retired courses, new courses, course changes, and minor plan modifications for the Faculty of Engineering, effective September 1, 2026, as presented.
- iv. Faculty of Environment – Regular Agenda
To recommend to SUC that Senate approve the major plan modifications for the Faculty of Environment Geographic Information Systems Certificate, Environment, Society and Well-Being Specialization, Remote Sensing Specialization, and regulation changes, effective September 1, 2026, as presented.
- v. Faculty of Mathematics – Regular Agenda
To recommend to SUC that Senate approve the major plan modifications for the Faculty of Mathematics Data Science program, effective September 1, 2026, as presented.
- vi. Faculty of Science – Regular Agenda
To recommend to SUC that Senate approve the major plan modifications for the Faculty of Science Advanced Physics Option, Aviation Minor, and regulation changes, effective September 1, 2026, as presented.

- vii. Office of the Registrar – Regular Agenda
To recommend to SUC that Senate approve the Office of the Registrar new regulation and regulation changes, effective September 1, 2026, as presented.

Summary

The SUC Curriculum Subcommittee has reviewed and agreed, via an e-vote which closed on January 26, 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, 6.3, 6.5-6.9).

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 Arts - Regular Agenda](#)
- ii. [Faculty of Engineering – Regular Agenda](#)
- iii. [Faculty of Engineering – Regular Agenda \(SYDE\)](#)
- iv. [Faculty of Environment – Regular Agenda](#)
- v. [Faculty of Mathematics – Regular Agenda](#)
- vi. [Faculty of Science – Regular Agenda](#)
- vii. [Office of the Registrar – 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:

- a. Make recommendations to Senate with respect to rules and regulations for the governance, direction and management of undergraduate studies in the university;
- 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: January 26, 2026 (via e-vote)
Senate Undergraduate Council: February 4, 2026 (prospective)

Documents Included

- 6.2. Faculty of Arts
- 6.3. Faculty of Engineering
- 6.5. Faculty of Engineering (SYDE)
- 6.6. Faculty of Environment
- 6.7. Faculty of Mathematics
- 6.8. Faculty of Science
- 6.9. Office of the Registrar

Date 2026/01/21

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Meeting Information

Agenda Page TitleSUC - 2026-02 - Regular Agenda - Faculty of Arts

Career Level
Undergraduate,

Faculty/UnitFaculty of Arts

Date2026-01-08

Summary

Summary of Submissions

Plans – Retires

**Accounting and Financial Management, School of
Renison University College**

Plans – Major Modifications

**Communication Arts, Department of
Economics, Department of**

Regulations

Averages and Academic Standings

Petitions

Summary of proposals and links are in the following sections.

**Please see the Consent agenda for Courses - Retires, Courses - New, Courses - Changes,
Plans - Minor Modifications.**

Course Proposals

Courses: Retire No proposals have been added.

Courses: New No proposals have been added.

Courses: Changes No proposals have been added.

Programs & Plans Proposals

Programs & Plans Proposal Details

Plans - Retirements

**Accounting and Finance, School of
Sustainability Specialization**

Renison University College
Applied Language Studies Minor
Diploma in Applied Language Studies

Plans - Major Modifications

- Communication Arts, Department of**
- Media Studies Specialization**
- Performance and Production Specialization**
- Performance Studies Specialization**
- Production and Design Specialization**
- Public Advocacy Specialization**
- Strategic Communication Specialization**
- Theatre and Performance Studies Specialization**

- Economics, Department of**
- Business Economics Minor**
- Econometrics and Data Analysis Minor**
- Economic Policy Minor**

Programs & Plans: Retire

Code	Title	Type	Workflow Step
<u>Sustainability Specialization</u>	Sustainability Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Applied Language Studies Minor</u>	Applied Language Studies Minor	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Applied Language Studies Diploma</u>	Diploma in Applied Language Studies	Programs	SUC Subcommittee, SUC Curricular Subcommittee

Programs & Plans: Major Modifications

Code	Title	Type	Workflow Step
<u>Media Studies Specialization</u>	Media Studies Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Performance & Production Specialization</u>	Performance and Production Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee

<u>Performance Studies Specialization</u>	Performance Studies Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Production & Design Specialization</u>	Production and Design Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Public Advocacy Specialization</u>	Public Advocacy Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Strategic Communication Specialization</u>	Strategic Communication Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Theatre & Performance Studies Specialization</u>	Theatre and Performance Studies Specialization	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Business Economics Minor</u>	Business Economics Minor	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Econometrics & Data Analysis Minor</u>	Econometrics and Data Analysis Minor	Programs	SUC Subcommittee, SUC Curricular Subcommittee
<u>Economic Policy Minor</u>	Economic Policy Minor	Programs	SUC Subcommittee, SUC Curricular Subcommittee

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

Regulations Proposals

Regulations Proposal Details

Regulations - Changes

Academic Standings

Page - Arts: Averages and Academic Standings

Academic Progression

Page - Arts: Averages and Academic Standings

Petitions

Page - Arts: Petitions

Regulations: Retire No proposals have been added.

Regulations: New No proposals have been added.

Regulations: Changes

Code	Title	Type	Workflow Step
UG-ARTS-Averages and Academic Standings	Arts: Averages and Academic Standings	Policies	SUC Subcommittee, SUC Curricular Subcommittee
UG-ARTS-Petitions	Arts: Petitions	Policies	SUC Subcommittee, SUC Curricular Subcommittee

Sustainability Specialization - Sustainability Specialization

[Top](#)

Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2024

Proposal Details

Proposal Type

Retire,

Academic Unit Approval

2025-05-25

Quality Assurance Designation

Major Modification Qad

Major Modification Categories

Closure of a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Is there an impact to existing students?

No,

Rationale and Background for Change(s)

The Sustainability specialization was created in 2015 to offer sustainability topics within the Accounting and Financial Management Program. It was created with the foresight of the need for sustainability topics while the Sustainability and Financial Management program was being developed; it is now operative. Further, we are integrating necessary sustainability topics into existing degree-required Accounting and Financial Management courses and offering a redesigned Enterprise Performance and Risk Specialization. The latter is already moving through the calendar approval process. Accordingly, there is no longer a need for a separate Sustainability Specialization and the number of specializations available to Bachelor of Accounting and Financial Management students will now be five.

Environment was notified of our intention to retire the Sustainability Specialization by professors Adam Vitalis and Sasan Saiy in meetings with the Environment faculty. We can confirm that consultation was carried out.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

School of Accounting and Finance

Faculty

Faculty of Arts

Undergraduate Credential Type

Specialization

Program/Plan Name

Sustainability Specialization

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

H-Accounting & Financial Management

Admissions Entry Point

Declare Plan,

Requirements Information

Invalid Combinations

No,

Average Requirement

No,

Graduation Requirements

- Complete a total of 3.0 units.

Course Requirements (units)

Required Courses

- 0 Units to Complete
- No Rules

Course Requirements (no units)

Required Courses

- Complete all of the following
- Complete 1 of the following:
 - ENBUS102 - Introduction to Environment and Business (0.50)
 - ENVS195 - Introduction to Environmental Studies (0.50)
 - ENVS220 - Ecological Economics (0.50)
 - INDEV100 - Introduction to International Development (0.50)
- Complete 2 of the following:
 - ENVS200 - Field Ecology (0.50)
 - ENVS205 - Sustainability: The Future We Want (0.50)
 - ENVS220 - Ecological Economics (0.50)
 - INDEV200 - The Political Economy of Development (0.50)
- Complete 1 of the following
 - Complete all the following:
 - AFM485 - Approaches to Measuring Value (0.50)
 - ENBUS202 - Environmental Management Systems (0.50)
 - ENBUS407 - Corporate Sustainability Accounting and Reporting (0.50)
 - Complete all the following:
 - ENBUS310 - Introduction to Sustainable Finance (0.50)
 - ENBUS408 - Policy Instruments for Sustainability (0.50)
 - ENBUS410 - Engaging Stakeholders (0.50)

Course Lists

Required Courses

- No Rules

Are there cross-listed courses listed in requirements?

No,

Additional Constraints

1. Alternative courses offered by the Faculty of Environment which offer a broad overview of sustainability issues at the 100- or 200-level can be substituted with prior approval from a School of Accounting and Finance academic advisor.

Notes

- Visit the [School of Accounting and Finance website](#) for further information.

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Senate Workflow

Senate Regular,

Dependencies

Applied Language Studies Minor - Applied Language Studies Minor

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Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2025

Proposal Details

Proposal Type

Retire,

Academic Unit Approval

2025-09-05

Quality Assurance Designation

Major Modification Qad

Major Modification Categories

Closure of a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Is there an impact to existing students?

Yes,

Impact on Existing Students

Seven students have declared an APPLS minor.

- As of Fall 2025, three students are in their 4A or 4B term, having completed all APPLS courses and only needing to finish one of two language courses. They will be able to complete the APPLS diploma in the 2025-26 academic year.
- One student is in the 4A term and will need to take an APPLS course equivalent on a Letter of Permission or petition for a course substitution. These students will not be negatively affected by the retirement of APPLS courses and the Applied Language Studies Minor.
- Three students are in their 2A or 2B terms, each needing three APPLS courses. They can only complete the APPLS minor if they take equivalent courses on a Letter of Permission or with course substitutions. Renison has informed these students that they will need to complete the outstanding APPLS courses on a Letter of Permission or petition a substitution. Not completing the APPLS minor does not affect their progression in their major.

Rationale and Background for Change(s)

On March 7, 2025, Renison's Academic Council approved to make all APPLS courses and related credentials (Applied Language Studies Minor and Diploma) redundant, effective Fall 2026, due to low enrollment. Furthermore, there are no tenure-track members employed at Renison to continue the discipline. The number of Applied Language Studies diplomas conferred has steadily decreased since 2014; since the 2021-2022 fiscal year, no students have received the Applied Language Studies diploma. Similarly, the number of Applied Language Studies minors conferred has also steadily declined since 2014, with an average of four minors awarded per year since the 2022-2023 fiscal year. On September 5, 2025, Renison's Academic Council approved the retirement of the courses and related credentials.

General Program/Plan Information

Faculty

Renison University College

Academic Unit

Renison University College

Faculty

Faculty of Arts with Renison University College

Undergraduate Credential Type

Minor

Program/Plan Name

Applied Language Studies Minor

Admissions

Admissions Entry Point

Declare Plan,

Declaration Audience

This credential is open to students enrolled in degree programs or any non- or post-degree academic plan. 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 4.0 units in APPLS and approved language courses.

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:
 - APPLS205R - Second Language Acquisition (0.50)
- Complete 3 additional APPLS courses
- Complete 2.0 units of language courses from the Approved Courses List below. See Additional Constraints.

Course Lists

Approved Courses List

- Complete all of the following
- Choose any of the following:
 - ARABIC101R - Introduction to Arabic 1 (0.50)
 - ARABIC102R - Introduction to Arabic 2 (0.50)
 - ARABIC120R - Literary Arabic for Heritage Speakers (0.50)
 - ARABIC201R - Intermediate Arabic 1 (0.50)
 - ARABIC202R - Intermediate Arabic 2 (0.50)
 - ARABIC301R - Advanced Arabic 1 (0.50)
 - ARABIC302R - Advanced Arabic 2 (0.50)
- Choose any of the following:
 - ASL101R - American Sign Language 1 (0.50)
 - ASL102R - American Sign Language 2 (0.50)
 - ASL201R - American Sign Language 3 (0.50)
 - ASL202R - American Sign Language 4 (0.50)
- Choose any of the following:
 - CHINA101R - First-Year Chinese 1 (0.50)
 - CHINA102R - First-Year Chinese 2 (0.50)
 - CHINA120R - Advanced First-Year Chinese (0.50)
 - CHINA201R - Second-Year Chinese 1 (0.50)
 - CHINA202R - Second-Year Chinese 2 (0.50)
 - CHINA301R - Third-Year Chinese 1 (0.50)
 - CHINA302R - Third-Year Chinese 2 (0.50)
 - CHINA310R - Chinese for Business Settings (0.50)
 - CHINA320R - Chinese in Mass Media (0.50)
 - CHINA390R - Introduction to Professional Translation (Chinese to English) (0.50)
 - CHINA391R - Special Topics (0.50)
 - CHINA401R - Introduction to Classical Chinese 1 (0.50)
 - CHINA402R - Introduction to Classical Chinese 2 (0.50)
- Choose any of the following:
 - CROAT101 - Elementary Croatian 1 (0.50)
 - CROAT102 - Elementary Croatian 2 (0.50)
 - CROAT299 - Croatian Abroad (0.50)

- Choose any of the following:
 - DUTCH101 - Elementary Dutch 1 (0.50)
 - DUTCH102 - Elementary Dutch 2 (0.50)
- Choose any of the following:
 - EMLS101R - Oral Communications for Academic Purposes (0.50)
 - EMLS102R - Clear Communication in English Writing (0.50)
 - EMLS103R - Effective English Pronunciation (0.50)
 - EMLS104R - Reading and Listening for Academic Purposes (0.50)
 - EMLS105R - English in Employment Contexts (0.50)
 - EMLS110R - Communicating in Canadian Academic Contexts (0.50)
 - EMLS129R - Written Academic English (0.50)
 - ENGL129R - Written Academic English (0.50)
- Choose any of the following:
 - FR101 - Beginner French (0.50)
 - 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)
 - FR203 - Introduction to Phonetics of French (0.50)
 - FR250 - Intermediate Spoken French (0.50)
 - FR251 - French Language 2: Module 1 (0.50)
 - FR252 - French Language 2: Module 2 (0.50)
 - FR255 - Business French 1 (0.50)
 - FR303 - Introduction to Linguistics (0.50)
 - FR351 - French Language 3 (0.50)
 - FR353 - Introduction to Translation (0.50)
 - FR355 - Business French 2 (0.50)
 - FR373 - Languages in Contact: The History of French-English Bilingualism (0.50)
 - FR400 - Translation Theory and Practice (0.50)
 - FR403 - Sound Structure of French (0.50)
 - FR452 - Advanced French Language (0.50)
 - FR473 - Francophone Minorities in Canada (0.50)
- Choose any 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)
 - GER299 - German Abroad (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)
- Choose any of the following:
 - GRK101 - Introductory Ancient Greek 1 (0.50)
 - GRK102 - Introductory Ancient Greek 2 (0.50)
 - GRK105 - Introductory Modern Greek (0.50)
 - GRK201 - Intermediate Greek (0.50)
 - GRK202 - Selections from Greek Authors (0.50)
 - GRK351 - Greek Composition, Grammar and Reading (0.50)
 - GRK451 - Senior Greek Composition, Grammar and Reading (0.50)
 - RCS101 - Introductory Ancient Greek 1 (0.50)
 - RCS102 - Introductory Ancient Greek 2 (0.50)
 - RCS223 - Intermediate Greek (0.50)
 - RCS224 - Selections from Greek Authors (0.50)
- Choose any 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)
- Choose any of the following:
 - ITAL101 - Introduction to Italian Language 1 (0.50)
 - ITAL102 - Introduction to Italian Language 2 (0.50)
 - ITAL155 - Intensive Introductory Italian Language (0.50)
 - ITAL201 - Intermediate Italian 1 (0.50)
 - ITAL202 - Intermediate Italian 2 (0.50)
 - ITAL251 - Issues in Contemporary Italian Society (0.50)
- Choose any of the following:
 - JAPAN101R - First-Year Japanese 1 (0.50)
 - JAPAN102R - First-Year Japanese 2 (0.50)
 - JAPAN111R - Japanese for Business 1 (0.50)
 - JAPAN112R - Japanese for Business 2 (0.50)
 - JAPAN201R - Second-Year Japanese 1 (0.50)
 - JAPAN202R - Second-Year Japanese 2 (0.50)
 - JAPAN301R - Third-Year Japanese 1 (0.50)
 - JAPAN302R - Third-Year Japanese 2 (0.50)
 - JAPAN391R - Special Topics (0.50)
- Choose any of the following:
 - KOREA101R - First-Year Korean 1 (0.50)
 - KOREA102R - First-Year Korean 2 (0.50)
 - KOREA201R - Second-Year Korean 1 (0.50)
 - KOREA202R - Second-Year Korean 2 (0.50)
 - KOREA301R - Third-Year Korean 1 (0.50)
 - KOREA302R - Third-Year Korean 2 (0.50)
 - KOREA391R - Special Topics (0.50)
- Choose any of the following:
 - LAT101 - Introductory Latin 1 (0.50)
 - LAT102 - Introductory Latin 2 (0.50)
 - LAT201 - Intermediate Latin (0.50)
 - LAT202 - Selections from Latin Authors (0.50)
 - LAT351 - Latin Composition, Grammar, and Reading (0.50)
 - LAT451 - Senior Latin Composition, Grammar, and Reading (0.50)
- Choose any of the following:
 - PORT101 - Introduction to Portuguese 1 (0.50)
 - PORT102 - Introduction to Portuguese 2 (0.50)
- Choose any of the following:
 - RUSS101 - Elementary Russian 1 (0.50)
 - RUSS102 - Elementary Russian 2 (0.50)
- Choose any 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)
 - SPAN301A - Spanish in Context 1 (0.50)
 - SPAN301B - Spanish in Context 2 (0.50)

Are there cross-listed courses listed in requirements?

Yes,

Cross-Listings Options

All cross-listings to be displayed,

Additional Constraints

1. All four language courses must be in one language that is not the student's first language, or two in each of two languages that are not the student's first language.
2. Students may only complete one course from any cross-listed set.

Notes

- Visit the [Culture and Language Studies website](#) for further information.

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College

Faculty of Arts

Dependencies

Applied Language Studies Diploma - Diploma in Applied Language Studies

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Effective Date and Career

Career

Undergraduate,

Proposed

Effective Term and Year

Fall 2026

Existing

Effective Term and Year

Fall 2024

Proposal Details

Proposal Type

Retire,

Academic Unit Approval

2025-09-05

Quality Assurance Designation

Major Modification Qad

Major Modification Categories

Closure of a graduate research field, graduate specialization, honours, option, specialization, undergraduate diploma, minor

Is there an impact to existing students?

No,

Rationale and Background for Change(s)

On March 7, 2025, Renison's Academic Council approved to make all APPLS courses and related credentials (Applied Language Studies Minor and Diploma) redundant, effective Fall 2026, due to low enrollment. Furthermore, there are no tenure-track members employed at Renison to continue the discipline. The number of Applied Language Studies diplomas conferred has steadily decreased since 2014; since the 2021-2022 fiscal year, no students have received the Applied Language Studies diploma. Similarly, the number of Applied Language Studies minors conferred has also steadily declined since 2014, with an average of four minors awarded per year since the 2022-2023 fiscal year. On September 5, 2025, Renison's Academic Council approved the retirement of the courses and related credentials.

General Program/Plan Information**Faculty**

Renison University College

Academic Unit

Renison University College

Faculty

Faculty of Arts with Renison University College

Undergraduate Credential Type

Diploma

Program/Plan Name

Diploma in Applied Language Studies

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 2.0 units.

Course Requirements (units)

Required Courses

- 0 Units to Complete
- No Rules

Course Requirements (no units)

Required Courses

- Complete all of the following
- Choose any of the following:
 - APPLS205R - Second Language Acquisition (0.50)
- Complete 3 additional APPLS courses

Course Lists

Required Courses

- No Rules

Are there cross-listed courses listed in requirements?

No,

Notes

- Visit the [Culture and Language Studies website](#) for further information.

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Renison University College Faculty of Arts

Dependencies

Media Studies Specialization - Media Studies Specialization

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Effective Date and Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

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

No,

Creating or Changing Invalid Combinations

No,

Change to Learning Outcomes

No,

Rationale and Background for New Program/Plan

This specialization will address the specific pedagogical, social, and professional advantages of a degree in communication studies focused on consideration of the social and cultural dimensions of mediated communication, recruit new students interested in developing capacities to work in media organizations and industries, and help graduating students articulate the purpose and significance of the courses in their communication studies major. Media Studies is a widely recognized sub-field in communication studies, and this specialization can leverage the growing popularity of that sub-field and sharpen the end goals of an undergraduate degree in the broader field of communication.

General Program/Plan Information**Faculty**

Faculty of Arts

Academic Unit

Department of Communication Arts

Faculty

Faculty of Arts

Undergraduate Credential Type

Specialization

Program/Plan Name

Media Studies Specialization

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

H-Communication Studies

Admissions Entry Point

Declare Plan,

Requirements Information

Invalid Combinations

No,

Average Requirement

No,

Graduation Requirements

- Complete a total of 2.5 units.

Course Requirements (units)

Required Courses

- 0 Units to Complete
- No Rules

Course Requirements (no units)

Required Courses

- Complete all of the following
- Complete 1 of the following:
 - DAC201 - Designing Digital Media (0.50)
 - ENGL203 - Designing Digital Media (0.50)
- Complete 4 of the following:
 - COMMST210 - Key Concepts in Media and Culture (0.50)
 - COMMST229 - History and Communication (0.50)
 - COMMST235 - Games and Society (0.50)
 - COMMST339 - Media, Images, and Communication (0.50)
 - COMMST430 - Communication and Social Justice (0.50)
 - COMMST435 - Games and Culture (0.50)
 - COMMST479 - Media and Environment Communication (0.50)
 - LS492 - Communication and Social Justice (0.50)

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. At least 1.0 units of the selected courses in the above list must be at the 300-level or above.

Notes

- Visit the [Department of Communication Arts website](#) for further information.

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Performance & Production Specialization - Performance and Production Specialization

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Effective Date and Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-06-25

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

The Performance and Production specialization addresses a critical enrolment and educational need by foregrounding the craft of acting and performance skills that initially attract a significant number of students to our program. Research consistently shows that prospective students are drawn to theatre programs through their passion for performing, and this specialization provides a clear pathway for those interested in developing advanced acting techniques, character development, voice and movement training, and performance creation. This focus on performance craft is strategically essential for maintaining and growing our enrollment, as it speaks directly to the aspirations of incoming students while providing the transcript designation that signals performance training to future employers and graduate programs.

The specialization's structure recognizes that while students often enter the program with performance ambitions, their interests frequently evolve and diversify throughout their undergraduate years. By integrating production knowledge alongside performance training, we prepare students who can work fluidly across multiple roles in contemporary theatre practice - actors who understand technical production, performers who can stage manage, and artists who grasp the collaborative nature of theatre-making from multiple perspectives. This flexibility allows students to pursue their initial performance passion while developing the broader skill set that many naturally gravitate toward in upper years.

Students in this specialization develop the ability to articulate the social and ethical dimensions of their creative work through integrated coursework that connects performance practice with critical theory at every level. When learning acting techniques, students simultaneously examine how theatrical

representation can resist or perpetuate systems of oppression, enabling them to make informed artistic choices about characterization, casting, and storytelling that reflect their values. When working in production roles, they apply this critical lens to understand how design choices, production hierarchies, and collaborative processes impact the meaning and accessibility of their work. This combination of embodied practice and critical reflection produces graduates who are not only technically proficient performers and production artists, but also thoughtful practitioners who can advocate for equitable, accessible, and socially engaged theatre in any professional context.

The specialization's four-year progressive structure - moving from foundational skills through development and advancement to focused expertise - ensures students graduate with both the practical competencies and intellectual frameworks needed to succeed in diverse theatre careers, from regional theatres and touring companies to educational settings and community-based performance work.

Consultations (Departmental)

Emailed English Language and Literature's Undergraduate Associate Chair on August 21, 2025 to add ENGL364 and ENGL367 to this Specialization.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of Communication Arts

Faculty

Faculty of Arts

Undergraduate Credential Type

Specialization

Program/Plan Name

Performance and Production Specialization

Admissions

Specialization is available for students in the following majors

H-Theatre & Performance

Admissions Entry Point

Declare Plan,

Requirements Information

Invalid Combinations

No,

Average Requirement

No,

Graduation Requirements

- Complete a total of 2.0 units.

Course Requirements (units)

Required Courses

- 0Units to Complete
- No Rules

Course Requirements (no units)

Required Courses

- Complete 4 of the following:
- COMMST326 - Performing the Voice (0.50)
- DAC248 - Project Management in the Arts (0.50)
- ENGL364 - Shakespeare in Performance at the Stratford Festival (0.50)
- ENGL367 - Voice and Text at the Stratford Festival (0.50)
- THPERF221 - Performing Text (0.50)
- THPERF222 - Performing the Body (0.50)
- THPERF248 - Project Management in the Arts (0.50)
- Course Not Found
- THPERF301 - Performance Creation (0.50)
- THPERF321 - Approaches to Acting with Text (0.50)
- THPERF322 - Approaches to Acting with the Body (0.50)
- THPERF326 - Performing the Voice (0.50)
- THPERF343 - Stage Management (0.50)
- THPERF361 - Approaches to Directing (0.50)
- THPERF364 - Shakespeare in Performance at the Stratford Festival (0.50)
- THPERF366 - Writing for Performance (0.50)
- THPERF367 - Voice and Text at the Stratford Festival (0.50)
- Course Not Found
- Course Not Found

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

- Visit the [Department of Communication Arts website](#) for further information.

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Performance Studies Specialization - Performance Studies Specialization

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Effective Date and Career**Career**

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details**Proposal Type**

New,

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

No,

Creating or Changing Invalid Combinations

No,

Change to Learning Outcomes

No,

Rationale and Background for New Program/Plan

This specialization will address the specific pedagogical, social, and professional advantages of a degree in communication studies focused on performance. Performance Studies is a recognized sub-field of Communication Studies. This specialization will help recruit students interested in embodied approaches to creative expression and critical inquiry, and help graduating students articulate the distinctive value of performance studies courses within communication studies.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of Communication Arts

Faculty

Faculty of Arts

Undergraduate Credential Type

Specialization

Program/Plan Name

Performance Studies Specialization

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

H-Communication Studies

Admissions Entry Point

Declare Plan,

Requirements Information**Invalid Combinations**

No,

Average Requirement

No,

Graduation Requirements

Complete at total of 2.5 units.

Course Requirements (units)

Required Courses

- 0Units to Complete
- No Rules

Course Requirements (no units)

Required Courses

- Complete all of the following
- Complete 1 of the following:
 - COMMST102 - Introduction to Performance (0.50)
 - THPERF102 - Introduction to Performance (0.50)
- Complete 4 of the following:
 - BLKST202 - Black and Free (0.50)
 - COMMST202 - Black and Free (0.50)
 - Course Not Found
 - COMMST323 - Speech Writing (0.50)
 - COMMST326 - Performing the Voice (0.50)
 - COMMST329 - Designing Digital Presentations (0.50)
 - Course Not Found
 - Course Not Found
 - COMMST440 - Performative Inquiry and Practice (0.50)
 - DAC329 - Designing Digital Presentations (0.50)
 - ENGL309E - Speech Writing (0.50)
 - THPERF282 - Gender and Performance (0.50)
 - THPERF326 - Performing the Voice (0.50)
 - THPERF376 - Political Performance (0.50)
 - THPERF378 - Race and Performance (0.50)
 - THPERF440 - Performative Inquiry and Practice (0.50)

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. At least 1.5 units of the selected courses in the above list must be at the 300-level or above.

Notes

- Visit the [Department of Communication Arts website](#) for further information.

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Production & Design Specialization - Production and Design Specialization

[Top](#)

Effective Date and Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

Academic Unit Approval

2025-06-25

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

The Production and Design specialization addresses growing industry demand for theatre artists with advanced technical skills, design expertise, and production management capabilities. While many students initially enter our program with performance interests, a significant portion discover their passion for the behind-the-scenes craft of theatre-making - scenic design, lighting, costumes, sound, technical direction, and stage management. This specialization provides a dedicated pathway for these students, offering the transcript designation that clearly signals specialized training to employers, graduate programs, and professional theatres.

The specialization prepares students who can move fluidly between design specialties and understand how all technical elements work together to realize a theatrical vision. By integrating stagecraft alongside design training, we develop graduates who possess both creative design skills and practical execution knowledge - designers who understand technical constraints, stage managers who grasp design principles, and production leaders who can effectively communicate across departments. Students develop the ability to articulate the social and ethical dimensions of their creative work through integrated coursework connecting design practice with critical theory. When learning design techniques, students examine how choices communicate meaning and can either reinforce or challenge cultural assumptions about race, gender, class, and accessibility. In production management contexts, they analyze how hierarchies, resource allocation, and collaborative processes impact equity and inclusion. This combination produces graduates who are both skilled technicians and thoughtful practitioners advocating for sustainable, accessible, and socially responsible production practices.

The four-year progressive structure ensures students graduate with the technical competencies and intellectual frameworks needed for diverse career paths in regional and commercial theatres, film and television production, event design, arts administration, technical direction, and education.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of Communication Arts

Faculty

Faculty of Arts

Undergraduate Credential Type

Specialization

Program/Plan Name

Production and Design Specialization

Admissions

Specialization is available for students in the following majors

H-Theatre & Performance

Admissions Entry Point

Declare Plan,

Requirements Information

Invalid Combinations

No,

Average Requirement

No,

Graduation Requirements

- Complete a total of 2.0 units.

Course Requirements (units)

Required Courses

- 0Units to Complete
- No Rules

Course Requirements (no units)

Required Courses

- Complete all of the following
- Complete 1 of the following:
 - DAC246 - Design for Performance Media (0.50)
 - THPERF246 - Design for Performance Media (0.50)
- Complete 3 of the following:
 - DAC248 - Project Management in the Arts (0.50)
 - THPERF248 - Project Management in the Arts (0.50)
 - Course Not Found
 - THPERF343 - Stage Management (0.50)
 - Course Not Found
 - THPERF361 - Approaches to Directing (0.50)
 - THPERF374 - Sustainability in Design (0.50)
 - Course Not Found
 - THPERF379 - Mixed Reality Design (0.50)
 - Course Not Found

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

- Visit the [Department of Communication Arts website](#) for further information.

Specializations

Undergraduate Plan Guidelines

Workflow Information

Workflow Path

Committee approvals,

Faculty/AFIW Path(s) for Workflow

Faculty of Arts

Dependencies

Public Advocacy Specialization - Public Advocacy Specialization

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Effective Date and Career

Career

Undergraduate,

Effective Term and Year

Fall 2026

Proposal Details

Proposal Type

New,

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

No,

Creating or Changing Invalid Combinations

No,

Change to Learning Outcomes

No,

Rationale and Background for New Program/Plan

This specialization will help clarify the specific social, pedagogical, and professional advantages of a degree in communication studies focused on a broad interest in public advocacy. It will help to recruit new students interested in developing capacities to integrate their values in their professional lives and help graduating students articulate the purpose and significance of the courses in their communication studies major. Public advocacy is a specialization that is a particular strength of Communication Arts at the University of Waterloo, and this specialization can help students to integrate their communication skills with the value for innovation fostered at this university.

General Program/Plan Information

Faculty

Faculty of Arts

Academic Unit

Department of Communication Arts

Faculty

Faculty of Arts

Undergraduate Credential Type

Specialization

Program/Plan Name

Public Advocacy Specialization

Admissions

Specialization is available for students in the following majors

H-Communication Studies

Admissions Entry Point

Declare Plan,

Requirements Information

Invalid Combinations

No,

Average Requirement

No,

Graduation Requirements

- Complete a total of 2.5 units.